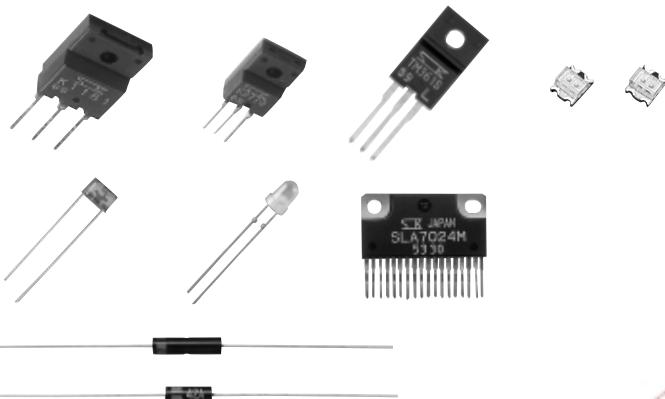


# SEMICONDUCTORS SHORT FORM CATALOG

ICs  
TRANSISTORS  
THYRISTORS  
DIODES  
LIGHT EMITTING DIODES



Datasheet.Directory

SANKEN ELECTRIC CO.,LTD.

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# SANKEN SEMICONDUCTORS

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## 1-1-1 Dropper Type IC Regulators

### ■ Low Dropout Voltage, 3-Terminal Regulators (Dropout Voltage: $V_{DIF} \leq 1.0V$ )

Series Name	Output Current (A)	Output Voltage (V)					Functions	Fig. No.
		5	9	12	15	24		
SI-3000N	1.0	SI-3050N	SI-3090N	SI-3120N	SI-3150N		Overcurrent protection (SI-3003N: Dropping type) Overvoltage protection Thermal protection	1
SI-3003N	1.0	SI-3053N		SI-3123N	SI-3153N			
SI-3001N	1.5	SI-3051N	SI-3091N	SI-3121N	SI-3151N	SI-3241N		
SI-3002N	2.0	SI-3052N	SI-3092N	SI-3122N	SI-3152N			
SI-3000V	2.0	SI-3052V		SI-3122V	SI-3152V		Overcurrent protection	2

### ■ Low Dropout Voltage, 5-Terminal Regulators (Dropout Voltage: $V_{DIF} \leq 1.0V$ )

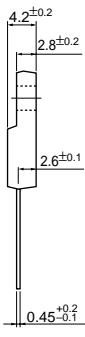
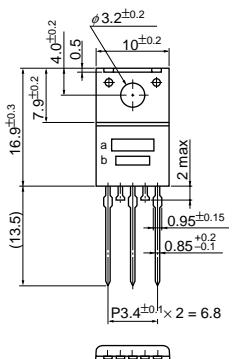
Series Name	Output Current (A)	Output Voltage (V)								Functions	Fig. No.
		3.3	5	9	12	15	15.7	24	Variable (3 to 24)		
SI-3000B	0.27						SI-3157B		SI-3025B	Adjustment of output voltage (rise only) Output ON/OFF control Overcurrent protection Overvoltage protection Thermal protection	3
SI-3000F	1.0		SI-3050F	SI-3090F	SI-3120F	SI-3150F	SI-3157F	SI-3240F	SI-3025F		
SI-3000C	1.5	SI-3033C	SI-3050C	SI-3090C	SI-3120C	SI-3150C		SI-3240C			
SI-3000J	2.0		SI-3050J	SI-3090J	SI-3120J	SI-3150J					

### ■ Low Dropout Voltage, 5-Terminal Regulator with Built-in Reset Function (Dropout Voltage: $V_{DIF} \leq 1.0V$ )

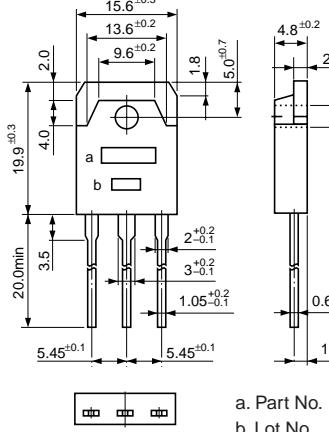
Series Name	Output Current (A)	Output Voltage (V)		Functions	Fig. No.
		5	15		
SI-3000R	1.5		SI-3050R	Overcurrent protection Overvoltage protection Thermal protection	3

## External Dimensions

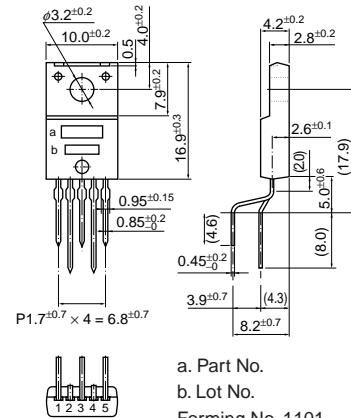
• No. 1



• No. 2



• No. 3



## 1-1-2 Switching Type IC Regulators

## ■ Surface Mount IC Regulators

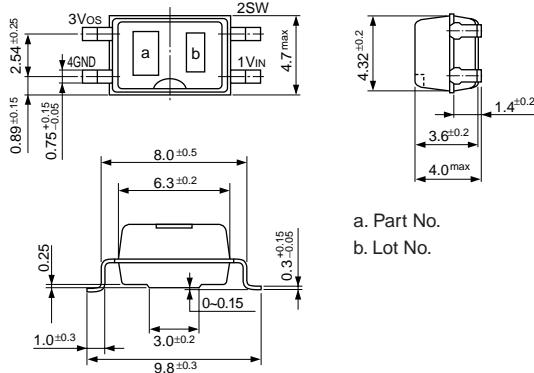
Series Name	Output Current (A)	Output Voltage (V)					Functions	Fig. No.
		3.3	5	9	12	15		
SAI	0.4			SAI06	SAI03	SAI04	Overcurrent protection Thermal protection Adjustment of output voltage (rise only)	1
	0.5		SAI02	SAI01				
SI-8000JD	1.5	SI-8033JD	SI-8050JD	SI-8090JD			Overcurrent protection Thermal protection Output ON/OFF control Soft start Adjustment of output voltage (rise only)	2

## ■ 5-Terminal IC Regulators

Series Name	Output Current (A)	Output Voltage (V)					Functions	Fig. No.
		3.3	5	9	12	15		
SI-8000E	0.6		SI-8050E	SI-8090E	SI-8120E		Overcurrent protection Thermal protection Adjustment of output voltage (rise only)	3
SI-8000JF	1.5	SI-8033JF	SI-8050JF	SI-8090JF	SI-8120JF		Overcurrent protection Thermal protection Output ON/OFF control	
SI-8000S	3.0	SI-8033S	SI-8050S	SI-8090S	SI-8120S	SI-8150S	Soft start Adjustment of output voltage (rise only)	

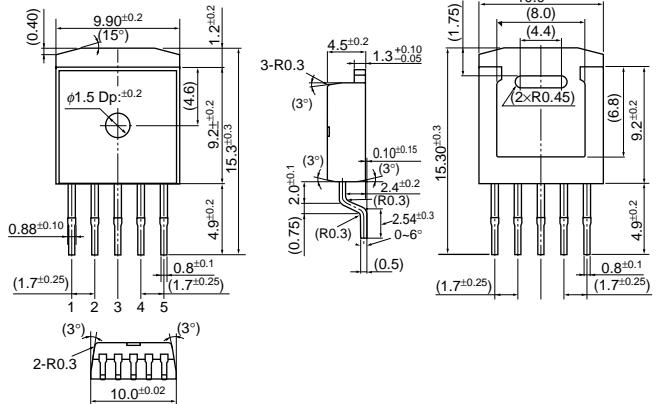
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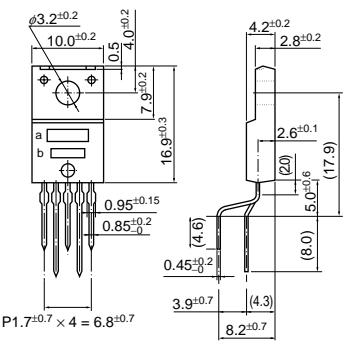


- a. Part No.
- b. Lot No.

• No. 2



• No. 3



- a. Part No.
- b. Lot No.

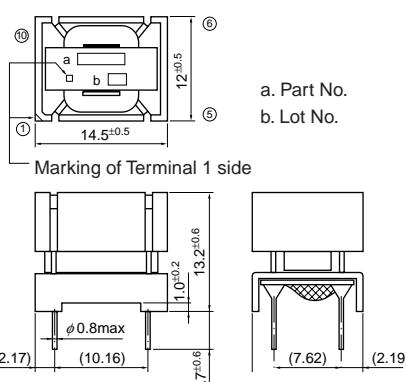
(unit: mm)

## ■IC Regulators with Coil

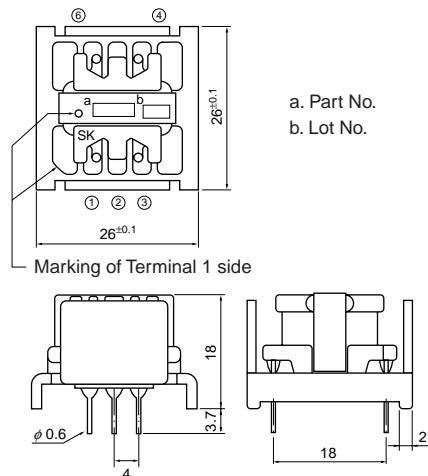
Series Name	Output Current (A)	Output Voltage (V)					Functions	Fig. No.
		3.3	5	9	12	15		
SI-8200L	0.36				SI-8203L			1
	0.5		SI-8201L					
SI-8300L	1.0		SI-8301L					2
SI-8400L	0.4				SI-8402L	SI-8405L	Overcurrent protection Thermal protection	3
	0.5	SI-8403L	SI-8401L					
SI-8500L	1.0	SI-8503L	SI-8501L	SI-8504L	SI-8502L	SI-8505L	Overcurrent protection Thermal protection Output ON/OFF control Soft start	2

## External Dimensions

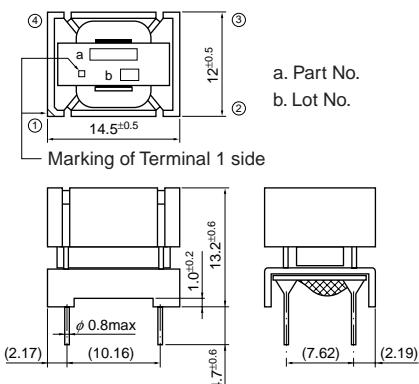
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### • No. 2



### • No. 3



(unit: mm)

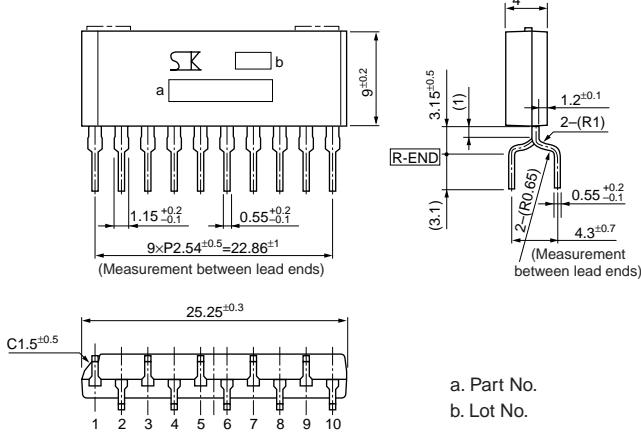
## 1-1-3 Multiple Output IC Regulators

### ■ 2 Outputs

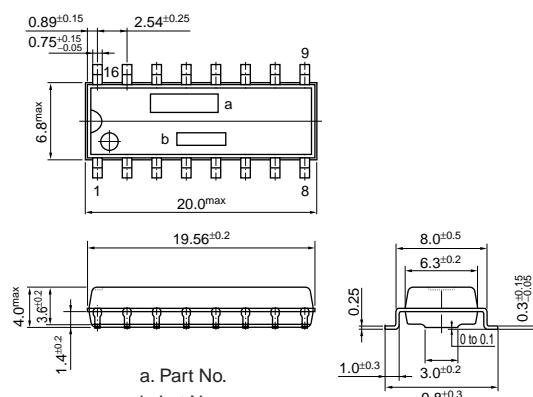
Part No.		Vo(V)	Io(A)	Regulator Type	Functions	Fig. No.
STA801M	ch1	5.0	0.5	Switching Type	Overcurrent protection, Thermal protection, ON/OFF control, Soft start	1
	ch2	Select one: 9, 11.5, 12.1, 15.5	0.5			
STA802M	ch1	9.0	0.5	Switching Type	Overcurrent protection, Thermal protection, ON/OFF control, Soft start	1
	ch2	Select one: 9, 11.7, 12.1, 15.7	0.5			
SDI02	ch1	5.0	0.5	Dropper Type	Overcurrent protection, Thermal protection, Output terminal for overcurrent protection operation signal, Vo shutdown after overcurrent protection operation	2
	ch2	5.0	0.5			
SI-3101S	ch1	5.0	0.07	Dropper Type	Overcurrent protection, Overvoltage protection, Thermal protection Ch2 output ON/OFF control, for Automotive	3
	ch2	5.0	0.5			
SI-3102S	ch1	5.0	0.04	Dropper Type	Overcurrent protection, Overvoltage protection, Thermal protection Ch2 output ON/OFF control, for Automotive	3
	ch2	5.0	0.1			

### External Dimensions

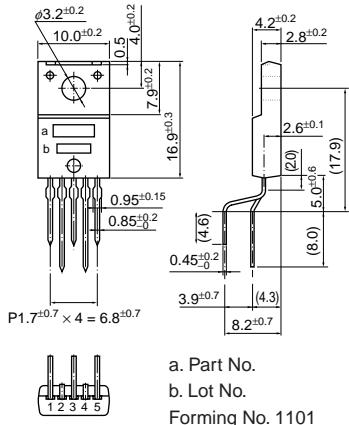
#### • No. 1



#### • No. 2



#### • No. 3



(unit: mm)

### ■3-Outputs

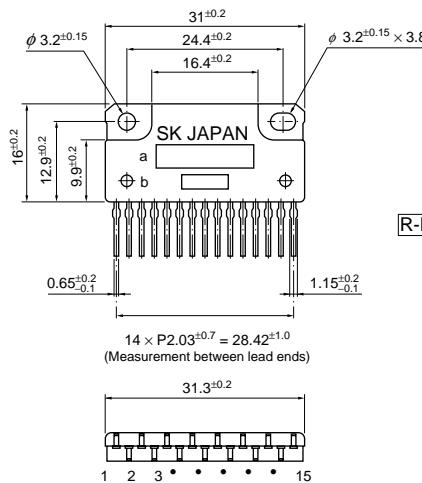
Part No.		Vo(V)	Io(A)	Regulator Type	Functions	Fig. No.
SLA3001M	Reg1	12	1.5	Dropper Type	Dropper type: Overcurrent protection Overvoltage protection Thermal protection	1
	Reg2	5.0	1.5			
	Reg3	9.0	1.5			
SLA3002M	Reg1	5.0	0.5	Switching Type	Adjustment of output voltage (rise only) Output ON/OFF control Switching Type	1
	Reg2	15.7	1.0	Dropper Type		
	Reg3	9.0	0.4	Switching Type		
SLA3004M	Reg1	5.0	0.5	Switching Type	Overcurrent protection Thermal protection	
	Reg2	9.0	0.4			
	Reg3	9.0	0.4			

### ■4-Outputs

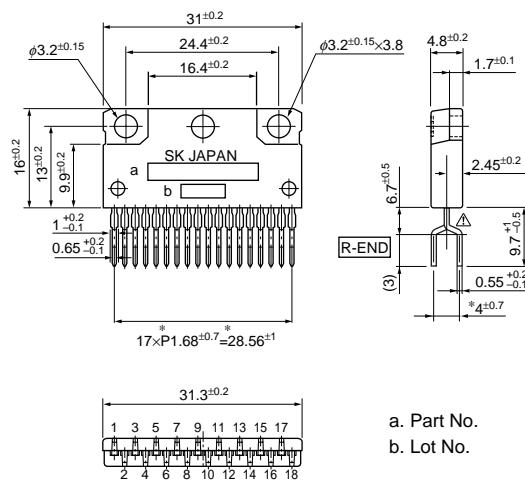
Part No.		Vo(V)	Io(A)	Regulator Type	Functions	Fig. No.
SLA3005M	ch1	5.0	0.5	Dropper Type	Overcurrent protection (Vo shutdown after operation) Thermal protection Output terminal for overcurrent protection operation signal	2
	ch2	5.0	0.5			
	ch3	5.0	0.5			
	ch4	5.0	0.5			
SLA3006M	ch1	5.0	0.5	Dropper Type	Overcurrent protection Thermal protection Output terminal for overcurrent protection operation signal	2
	ch2	5.0	0.5			
	ch3	5.0	0.5			
	ch4	5.0	0.5			
SLA3007M	ch1	5.0	0.5	Dropper Type	Overcurrent protection (Vo shutdown after operation) Thermal protection Output terminal for overcurrent protection operation signal	2
	ch2	5.0	0.5			
	ch3	5.0	0.5			
	ch4	3.3	0.5			

### External Dimensions

• No. 1



• No. 2



a. Part No.  
b. Lot No.  
Forming No. 861

a. Part No.  
b. Lot No.

(unit: mm)

## 1-2-1 2-Phase Stepper Motor Unipolar Driver ICs

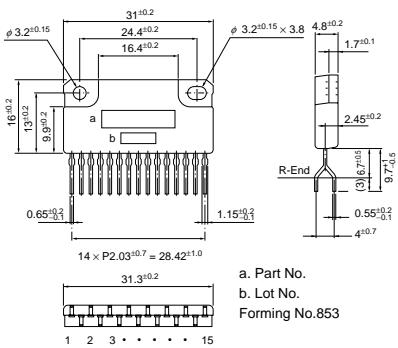
Part No.	Output Current (A)	Supply Voltage (V)	Step Sequence Mode	Package	Remarks	Fig. No.			
SLA7022MU	1	~46	2-phase/1-2 phase excitation	ZIP15Pin With Fin		1			
SMA7022MU				ZIP15Pin		2			
SLA7029M				ZIP15Pin With Fin		1			
SMA7029M				ZIP15Pin		2			
SMA7036M				ZIP15Pin	Equivalent to SMA7029M				
SDK03M	1	~46	2-phase/1-2 phase/W1-2 phase excitation	SMD16Pin	1 motor driven by 2 ICs	3			
SLA7027MU				ZIP18Pin With Fin					
SLA7024M	1.5	~46		ZIP18Pin With Fin					
SLA7032M				ZIP18Pin With Fin	Equivalent to SLA7024M				
SLA7026M	3			ZIP18Pin With Fin		4			
SLA7033M				ZIP18Pin With Fin	Equivalent to SLA7026M				
SLA7042M	1.2	~46	2W1-2 phase	ZIP18Pin With Fin					
SLA7044M	3		Supporting $\mu$ Step	ZIP18Pin With Fin					

- **Serial Signal Generator for SLA704xM**

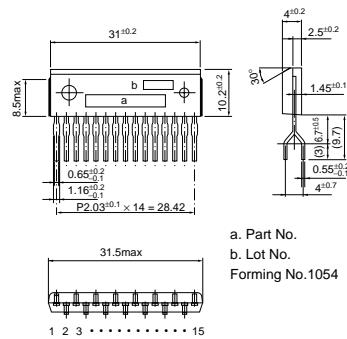
Part No.	Supply Voltage (V)	Package	Fig. No.
PG001M	4.5~5.5	DIP16Pin	5

## External Dimensions

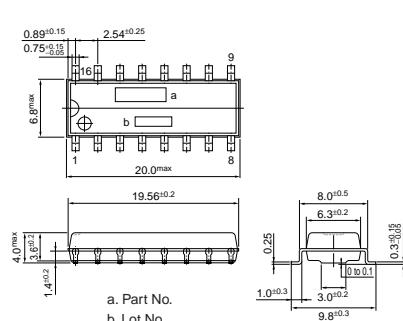
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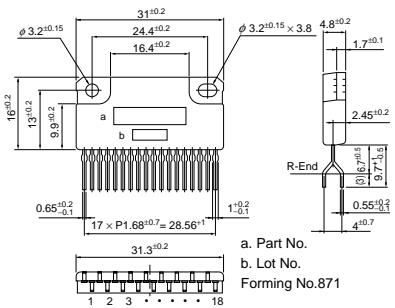
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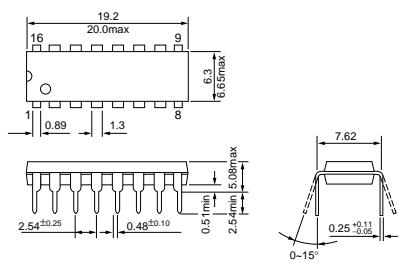
• No. 3



• No. 4



• No. 5



(unit: mm)

## 1-2-2 3-Phase Stepper Motor Driver Control ICs

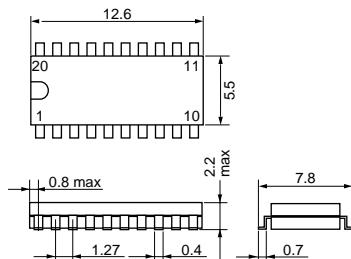
Part No.	Supply Voltage (V)	Step Sequence Mode	Package	Remarks	Fig. No.
SI-7600	15~45	2-phase/2-3 phase excitation	SOP20Pin	Use in pair with SLA5017, etc.	1
SI-7600D			DIP20Pin		2

## 1-2-3 5-Phase Stepper Motor Driver Control ICs

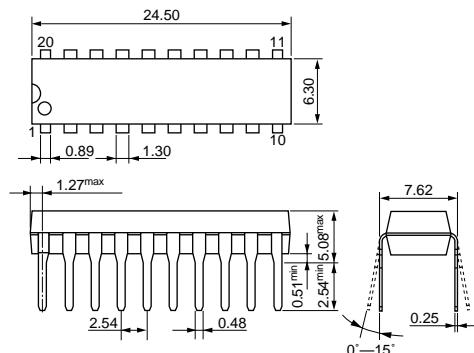
Part No.	Supply Voltage (V)	Step Sequence Mode	Package	Remarks	Fig. No.
SI-7502	15~42	For pentagonal connection drive	Powder coating 27pin	Use with SLA6503 and SLA5011	3

### External Dimensions

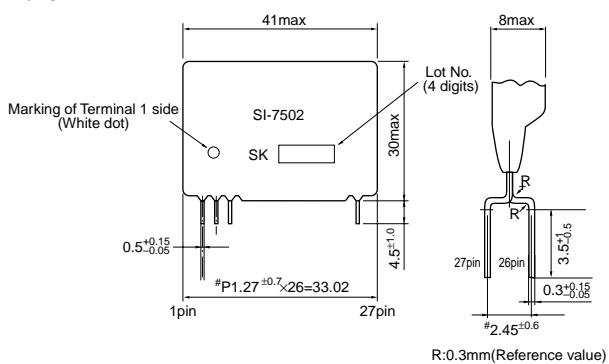
• No. 1



• No. 2



• No. 3



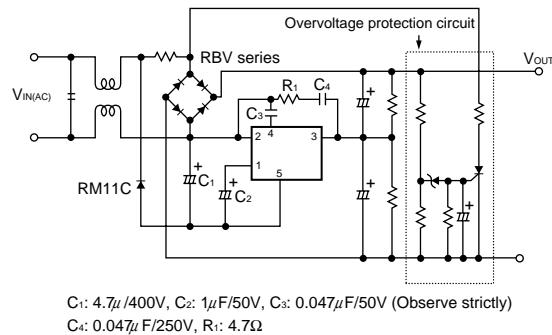
R:0.3mm (Reference value)

(Note) # indicates the measurement between lead ends.

(unit: mm)

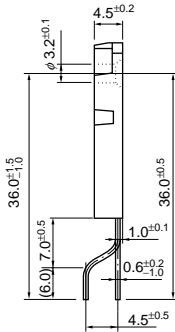
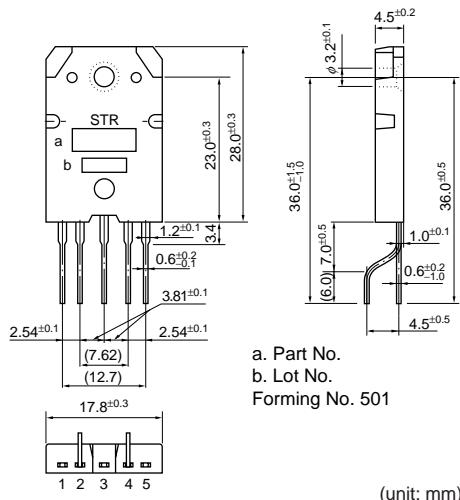
Setting Switchover Voltage		RMS On-state CurrentIT (RMS) (A)		Remarks	Fig. No.
Vc(DC) (V)	Vc(AC) (V)	5	10		
205±5	145	STR82145	STR83145	With latching capability	
225±5	159		STR83159	With latching capability	1

### Example of application circuit



### External Dimensions

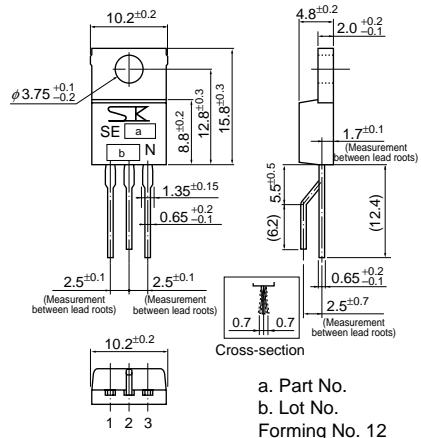
#### • No. 1



Part No.	Output Detection Voltage Vs (V)	Collector-Ground Voltage VCGO (V)	Collector Current Ic (mA)	Package	Remarks	Fig. No.
SE005N	5.0±0.1	12	50	TO-220	Variable voltage detection Gain adjustment possible	1
SE012N	12.0±0.2					
SE015N	15.0±0.2					
SE024N	24.0±0.2					
SE034N	34.0±0.3					
SE040N	40.0±0.4					
SE070N	70.2±0.8					
SE080N	80.2±0.8					
SE090N	90.0±0.8					
SE105N	105.2±0.8					
SE110N	110.2±0.8					
SE115N	115.2±0.8					
SE120N	120.2±0.8					
SE125N	125.2±0.8					
SE130N	130.2±0.8					
SE135N	135.2±0.8					
SE140N	141.2±0.8					
SE-B3	141.2±0.6  ( I <sub>IN</sub> =4mA, R <sub>C</sub> =9.1kΩ R <sub>S</sub> =88.7kΩ )					

### External Dimensions

• No. 1



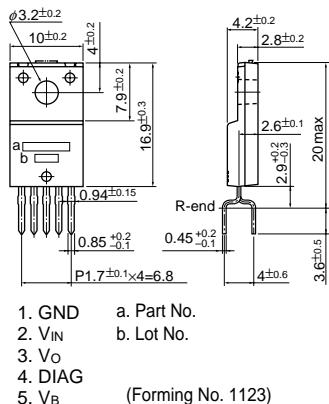
a. Part No.  
b. Lot No.  
Forming No. 12

(unit: mm)

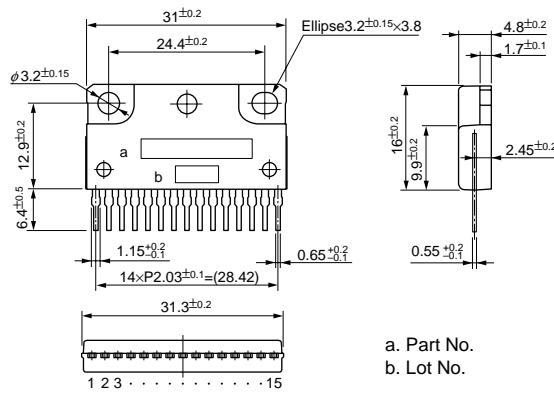
Part No.	Classification	Number of Circuits	Supply of Circuits (V)	Output Current (A)	Allowable Power Dissipation without Heatsink (W)	Package	Protection Circuit	Fig. No.	
SI-5151S	High-side power switch with diagnosis function	1 circuit	40	1.8	1.5	TO-220F 5Pin	Built-in overcurrent and thermal protection circuits	1	
SI-5152S				1.8	1.8				
SI-5153S				2.04	1.8				
SI-5154S				2.5	1.8				
SI-5155S				2.5	1.8				
SDH04		2 circuits		1.5	2.6	SMD16Pin		2	
SLA2501M				1.5	4.8	SIP15Pin		3	
SLA2502M		3 circuits		1.2	4.8				
SPF5002A	Low-side power switch	4 circuits		1.8	2	SMD16Pin	Built-in overcurrent, overvoltage and thermal protection circuit	4	

### External Dimensions

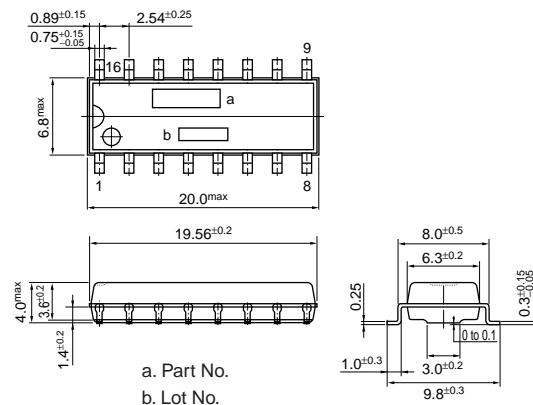
• No. 1



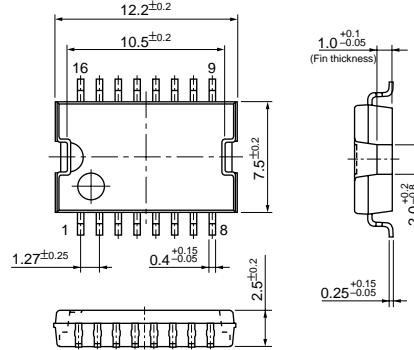
• No. 3



• No. 2



• No. 4





# 2

## Transistors

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## 2-1-1 Transistors for Audio Amplifiers

### ■ Complementary Transistors for Output

Pc (W)	Ic (A)	V <sub>CEO</sub> (V)	Chip				Package	Fig. No.		
			Single Transistor		Darlington					
			General	LAPT						
30	6	80	2SA1725	2SC4511			TO-220F	1		
	6	110				2SB1686	2SD2642			
50	6	80	2SA1726	2SC4512			TO-220	2		
	6	110				2SB1659	2SD2589			
60	6	80	2SA1693	2SC4466			TO-3P	3		
	6	80	2SA1907	2SC5099						
	6	110				2SB1685	2SD2641	TO-3P		
	6	110				2SB1687	2SD2643			
75	8	120	2SA1908	2SC5100			TO-3PF	4		
	8	150				2SB1587	2SD2438			
80	8	120	2SA1694	2SC4467			TO-3P	3		
	10	140	2SA1909	2SC5101						
	8	150				2SB1559	2SD2389	TO-3P		
	10	150				2SB1588	2SD2439			
	14	150		2SA1860	2SC4886		TO-3PF	4		
85	15	150				2SB1649	2SD2562			
	15	180	2SA1673	2SC4388			TO-3PF	4		
100	10	140	2SA1695	2SC4468			TO-3P	3		
	10	150		2SA1186	2SC2837					
	10	150				2SB1560	2SD2390	TO-3P		
125	14	150		2SA1303	2SC3284		TO-3P	3		
130	15	150				2SB1647	2SD2560			
	15	160		2SA1386	2SC3519		TO-3P	3		
	15	180	2SA1492	2SC3856						
	15	180		2SA1386A	2SC3519A		TO-3P	3		
	15	230		2SA1294	2SC3263					
150	12	150				2SB1570	2SD2401	MT-200 (2-screw mount)		
	15	160		2SA1215	2SC2921		MT-200 (2-screw mount)	5		
	15	200	2SA1493	2SC3857						
200	17	150				2SB1648	2SD2561	MT-200 (2-screw mount)		
	17	180		2SA1216	2SC2922		MT-200 (2-screw mount)	5		
	17	200	2SA1494	2SC3858						
	17	230		2SA1295	2SC3264		MT-200 (2-screw mount)	5		

LAPT: Multi-Emitter for High Frequency

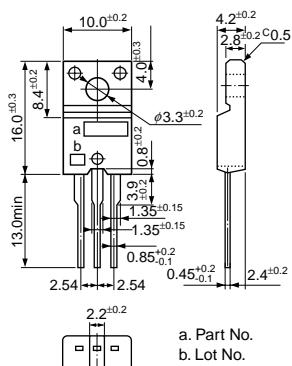
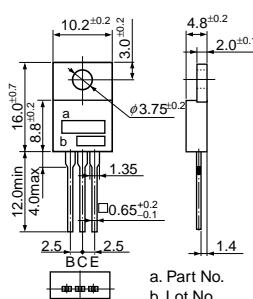
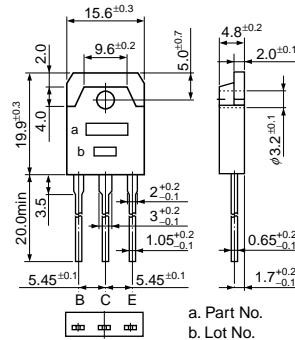
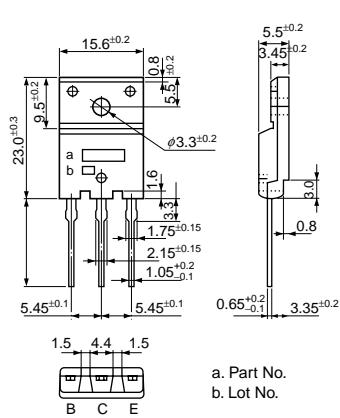
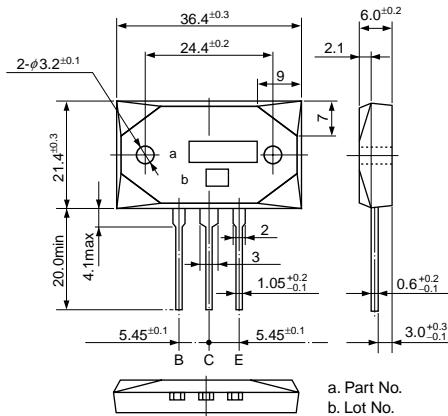
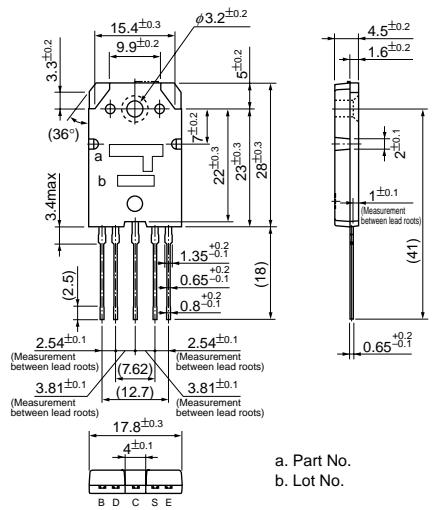
### ■ Complementary Transistors for Output built-in Temperature Compensation

Part No.	Pc(W)	Ic(A)	V <sub>CEO</sub> (V)	Package			Fig. No.
SAP09P	SAP09N	80	10	150	Original 5-pin power package		
SAP10P	SAP10N	100	12	150	Original 5-pin power package		
SAP16P	SAP16N	150	15	160	Original 5-pin power package		

### ■ Transistors for Driver and Temperature Compensation

Part No.	Pc(W)	V <sub>CEO</sub> (V)	Ic(A)	h <sub>FE</sub> (min)	f <sub>T</sub> (MHz)	Package	Remarks	Fig. No.
2SC4495	25	50	3	500	40	TO-220F	Temperature compensation	1
2SA1859	2SC4883	20	150	2	60	60/120	TO-220F	
2SA1859A	2SC4883A	20	180	2	60	60/120	TO-220F	

## External Dimensions

**• No. 1 (TO-220F)**

**• No. 2 (TO-220)**

**• No. 3 (TO-3P)**

**• No. 4 (TO-3PF)**

**• No. 5 (MT-200)**

**• No. 6 (SAP)**


(unit: mm)

## 2-1-2 Transistors for SMPS

## ■ Transistors for DC-DC Converter

Part No.	V <sub>CBO</sub> (V)	V <sub>CEO</sub> (V)	I <sub>C</sub> (A)	P <sub>C</sub> (W)	Package	Fig. No.
2SC5370	60	40	12	30	TO-220F	1
2SC4024	100	50	10	35	TO-220F	
2SC4131			15	60	TO-3PF	
2SC4153	200	120	7	30	TO-220F	1
2SC3834				50	TO-220	3
2SC3835				70	TO-3P	4

### ■Transistors for AC100V Input

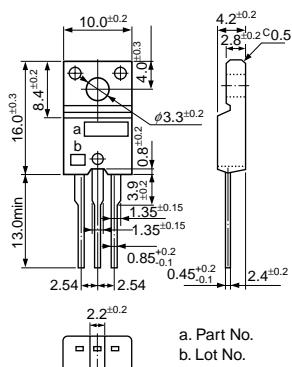
Part No.	V <sub>CBO</sub> (V)	V <sub>CEO</sub> (V)	I <sub>c</sub> (A)	P <sub>c</sub> (W)	Package	Fig. No.
2SC5271	250	200	5	30	TO-220F	1
2SC4073	500	400	5	30	TO-220F	
2SC4418				30	TO-220F	
2SC4662				30	TO-220F	
2SC3890			7	30	TO-220F	
2SC4130				30	TO-220F	
2SC3832				50	TO-220	3
2SC4296			10	75	TO-3PF	2
2SC4138				80	TO-3P	4
2SC4297			12	75	TO-3PF	2
2SC3833				100	TO-3P	4
2SC5071				100	TO-3P	
2SC4298			15	80	TO-3PF	2
2SC4139				120	TO-3P	4
2SC4434				120	TO-3P	
2SC4140			18	130	TO-3P	
2SC5130	600	400	5	30	TO-220F	1
2SC4546			7	30	TO-220F	
2SC4907		500	6	30	TO-220F	3
2SC3830				50	TO-220	
2SC3831			10	100	TO-3P	4
2SC5249		600	3	35	TO-220F	1

### ■ Transistors for AC200V Input

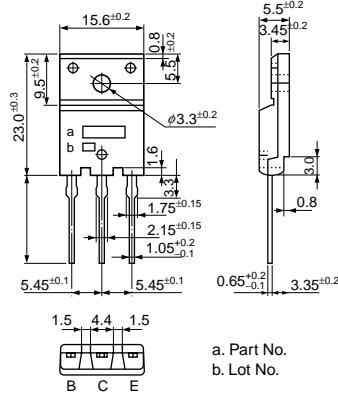
Part No.	V <sub>CBO</sub> (V)	V <sub>CEO</sub> (V)	I <sub>c</sub> (A)	P <sub>c</sub> (W)	Package	Fig. No.
2SC4517	900	550	3	30	TO-220F	1
2SC5239				50	TO-220	3
2SC4518			5	35	TO-220F	1
2SC5287				80	TO-3P	4
2SC4557		600	10	80	TO-3PF	2
2SC3927				120	TO-3P	4
2SC5586			5	70	TO-3PF	2
2SC4706				130	TO-3P	4
2SC4908		800	3	35	TO-220F	1
2SC4304				35	TO-220F	
2SC4020				50	TO-220	3
2SC4445				60	TO-3PF	2
2SC4299				70	TO-3PF	
2SC3678			5	80	TO-3P	4
2SC4300				75	TO-3PF	2
2SC3679			7	100	TO-3P	4
2SC4301				80	TO-3PF	2
2SC3680				120	TO-3P	4
2SC4517A	1000	550	3	30	TO-220F	1
2SC4518A			5	35	TO-220F	
2SC5002	1500	800	7	80	TO-3PF	2
2SC5124			10	100	TO-3PF	

## External Dimensions

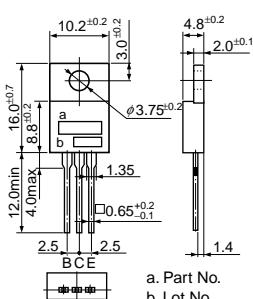
- No. 1 (TO-220F)



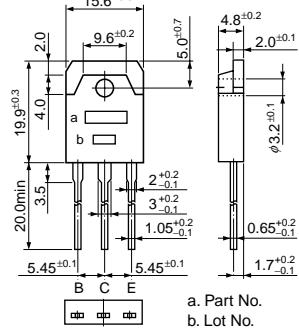
- No. 2 (TO-3PF)



- No. 3 (TO-220)



- No. 4 (TO-3P)



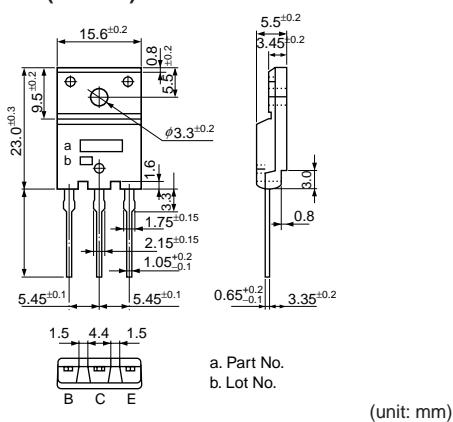
(unit: mm)

### 2-1-3 Transistors for Display Deflection Output

Part No.	V <sub>CBO</sub> (V)	V <sub>CEO</sub> (V)	I <sub>c</sub> (A)	P <sub>c</sub> (W)	Package	Fig. No.
2SC5002	1500	800	7	80	TO-3PF	1
2SC5124			10	100		

#### External Dimensions

• No. 1 (TO-3PF)



## 2-1-4 List of General Purpose Transistors by Part No.

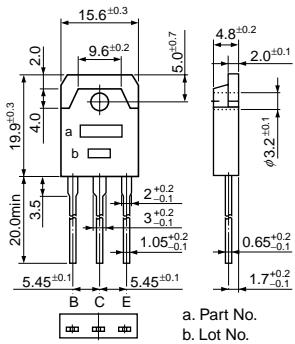
Part No.	V <sub>CBO</sub> (V)	V <sub>CEO</sub> (V)	I <sub>c</sub> (A)	P <sub>c</sub> (W)	Package	Remarks	Fig. No.
2SA1186	-150	-150	-10	100	TO-3P	LAPT	1
2SA1215	-160	-160	-15	150	MT-200 (2-screw mount)	LAPT	2
2SA1216	-180	-180	-17	200	MT-200 (2-screw mount)	LAPT	
2SA1262	-60	-60	-4	30	TO-220		3
2SA1294	-230	-230	-15	130	TO-3P	LAPT	1
2SA1295	-230	-230	-17	200	MT-200 (2-screw mount)	LAPT	2
2SA1303	-150	-150	-14	125	TO-3P	LAPT	
2SA1386	-160	-160	-15	130	TO-3P	LAPT	1
2SA1386A	-180	-180	-15	130	TO-3P	LAPT	
2SA1488	-60	-60	-4	25	TO-220F		4
2SA1488A	-80	-80	-4	25	TO-220F		
2SA1492	-180	-180	-15	130	TO-3P		1
2SA1493	-200	-200	-15	150	MT-200 (2-screw mount)		2
2SA1494	-200	-200	-17	200	MT-200 (2-screw mount)		
2SA1567	-50	-50	-12	35	TO-220F	Low V <sub>CE</sub> (sat)	
2SA1568	-60	-60	$\pm 12$	35	TO-220F	Low V <sub>CE</sub> (sat)	4
2SA1667	-150	-150	-2	25	TO-220F		
2SA1668	-200	-200	-2	25	TO-220F		
2SA1673	-180	-180	-15	85	TO-3PF		5
2SA1693	-80	-80	-6	60	TO-3P		
2SA1694	-120	-120	-8	80	TO-3P		1
2SA1695	-140	-140	-10	100	TO-3P		
2SA1725	-80	-80	-6	30	TO-220F		4
2SA1726	-80	-80	-6	50	TO-220		3
2SA1859	-150	-150	-2	20	TO-220F		4
2SA1859A	-180	-180	-2	20	TO-220F		
2SA1860	-150	-150	-14	80	TO-3PF	LAPT	
2SA1907	-80	-80	-6	60	TO-3PF		5
2SA1908	-120	-120	-8	75	TO-3PF		
2SA1909	-140	-140	-10	80	TO-3PF		
2SA2003	-60	-60	-5	25	TO-220F		
2SB1257	-60	-60	-4	25	TO-220F	Darlington	
2SB1258	-100	-100	-6	30	TO-220F	Darlington	4
2SB1259	-120	-120	-10	30	TO-220F	Darlington	
2SB1351	-60	-60	-12	30	TO-220F	Darlington	
2SB1352	-60	-60	-12	60	TO-3PF	Darlington	
2SB1382	-120	-120	-16	75	TO-3PF	Darlington	5
2SB1383	-120	-120	-25	120	TO-3P	Darlington	
2SB1420	-120	-120	-16	80	TO-3P	Darlington	1
2SB1559	-160	-160	-8	80	TO-3P	Darlington	
2SB1560	-160	-150	-10	100	TO-3P	Darlington	
2SB1570	-160	-150	-12	150	MT-200 (2-screw mount)	Darlington	2
2SB1587	-160	-150	-8	75	TO-3PF	Darlington	5
2SB1588	-160	-150	-10	80	TO-3PF	Darlington	
2SB1647	-150	-150	-15	130	TO-3P	Darlington	1
2SB1648	-150	-150	-17	200	MT-200 (2-screw mount)	Darlington	2
2SB1649	-150	-150	-15	85	TO-3PF	Darlington	5
2SB1659	-110	-110	-6	50	TO-220	Darlington	3
2SB1685	-110	-110	-6	60	TO-3P	Darlington	1
2SB1686	-110	-110	-6	30	TO-220F	Darlington	4
2SB1687	-110	-110	-6	60	TO-3PF	Darlington	5
2SC2023	300	300	2	40	TO-220		3
2SC2837	150	150	10	100	TO-3P	LAPT	1
2SC2921	160	160	15	150	MT-200 (2-screw mount)	LAPT	2
2SC2922	180	180	17	200	MT-200 (2-screw mount)	LAPT	
2SC3179	80	60	4	30	TO-220		3
2SC3263	230	230	15	130	TO-3P	LAPT	1
2SC3264	230	230	17	200	MT-200 (2-screw mount)	LAPT	2

Part No.	V <sub>CBO</sub> (V)	V <sub>CEO</sub> (V)	I <sub>c</sub> (A)	P <sub>c</sub> (W)	Package	Remarks	Fig. No.
2SC3284	150	150	14	125	TO-3P	LAPT	
2SC3519	160	160	15	130	TO-3P	LAPT	
2SC3519A	180	180	15	130	TO-3P	LAPT	
2SC3678	900	800	3	80	TO-3P		1
2SC3679	900	800	5	100	TO-3P		
2SC3680	900	800	7	120	TO-3P		
2SC3830	600	500	6	50	TO-220		3
2SC3831	600	500	10	100	TO-3P		1
2SC3832	500	400	7	50	TO-220		3
2SC3833	500	400	12	100	TO-3P		1
2SC3834	200	120	7	50	TO-220		3
2SC3835	200	120	7	70	TO-3PF		5
2SC3851	80	60	4	25	TO-220F		
2SC3851A	100	80	4	25	TO-220F		4
2SC3852	80	60	3	25	TO-220F	High h <sub>FE</sub> /Low V <sub>CE(sat)</sub>	
2SC3852A	100	80	3	25	TO-220F	High h <sub>FE</sub> /Low V <sub>CE(sat)</sub>	
2SC3856	180	180	15	130	TO-3P		1
2SC3857	200	200	15	150	MT-200 (2-screw mount)		2
2SC3858	200	200	17	200	MT-200 (2-screw mount)		
2SC3890	500	400	7	30	TO-220F		4
2SC3927	900	550	10	120	TO-3P		1
2SC4020	900	800	3	50	TO-220		3
2SC4024	100	50	10	35	TO-220F	High h <sub>FE</sub> /Low V <sub>CE</sub>	4
2SC4064	50	50	12	35	TO-220F	Low V <sub>CE(sat)</sub>	
2SC4065	60	60	±12	35	TO-220F	Low V <sub>CE(sat)</sub>	4
2SC4073	500	400	5	30	TO-220F		
2SC4130	500	400	7	30	TO-220F		
2SC4131	100	50	15	60	TO-3PF	Low V <sub>CE(sat)</sub>	5
2SC4138	500	400	10	80	TO-3P		
2SC4139	500	400	15	120	TO-3P		1
2SC4140	500	400	18	130	TO-3P		
2SC4153	200	120	7	30	TO-220F		4
2SC4296	500	400	10	75	TO-3PF		
2SC4297	500	400	12	75	TO-3PF		
2SC4298	500	400	15	80	TO-3PF		5
2SC4299	900	800	3	70	TO-3PF		
2SC4300	900	800	5	75	TO-3PF		
2SC4301	900	800	7	80	TO-3PF		
2SC4304	900	800	3	35	TO-220F		
2SC4381	150	150	2	25	TO-220F		4
2SC4382	200	200	2	25	TO-220F		
2SC4388	200	180	15	85	TO-3PF		5
2SC4418	500	400	5	30	TO-220F		4
2SC4434	500	400	15	120	TO-3P		1
2SC4445	900	800	3	60	TO-3PF		5
2SC4466	120	80	6	60	TO-3P		
2SC4467	160	120	8	80	TO-3P		1
2SC4468	200	140	10	100	TO-3P		
2SC4495	80	50	3	25	TO-220F	High h <sub>FE</sub> /Low V <sub>CE(sat)</sub>	4
2SC4511	120	80	6	30	TO-220F		
2SC4512	120	80	6	50	TO-220		3
2SC4517	900	550	3	30	TO-220F		
2SC4517A	1000	550	3	30	TO-220F		
2SC4518	900	550	5	35	TO-220F		
2SC4518A	1000	550	5	35	TO-220F		
2SC4546	600	400	7	30	TO-220F		
2SC4557	900	550	10	80	TO-3PF		5
2SC4662	500	400	5	30	TO-220F		4
2SC4706	900	600	14	130	TO-3P		1
2SC4883	150	150	2	20	TO-220F		
2SC4883A	180	180	2	20	TO-220F		4
2SC4886	150	150	14	80	TO-3PF	LAPT	5

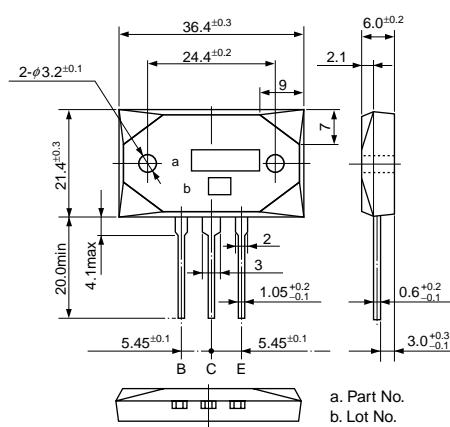
Part No.	V <sub>CEO</sub> (V)	V <sub>CEO</sub> (V)	I <sub>c</sub> (A)	P <sub>c</sub> (W)	Package	Remarks	Fig. No.
2SC4907	600	500	6	30	TO-220F		4
2SC4908	900	800	3	35	TO-220F		
2SC5002	1500	800	7	80	TO-3PF		5
2SC5071	500	400	12	100	TO-3P		1
2SC5099	120	80	6	60	TO-3PF		
2SC5100	160	120	8	75	TO-3PF		
2SC5101	200	140	10	80	TO-3PF		5
2SC5124	1500	800	10	100	TO-3PF		
2SC5130	600	400	5	30	TO-220F		4
2SC5239	900	550	3	50	TO-220		3
2SC5249	600	600	3	35	TO-220F		4
2SC5271	250	200	5	30	TO-220F		
2SC5287	900	550	5	80	TO-3P		1
2SC5333	300	300	2	35	TO-220F		
2SC5370	60	40	12	30	TO-220F	Low V <sub>ce(sat)</sub>	4
2SC5487	60	60	5	25	TO-220F		
2SC5586	900	550	5	80	TO-3PF		5
2SD1769	120	120	6	50	TO-220	Darlington	3
2SD1785	120	120	6	30	TO-220F	Darlington	
2SD1796	60±10	60±10	4	25	TO-220F	Darlington	
2SD2014	120	80	4	25	TO-220F	Darlington	
2SD2015	150	120	4	25	TO-220F	Darlington	4
2SD2016	200	200	3	25	TO-220F	Darlington	
2SD2017	300	250	6	35	TO-220F	Darlington	
2SD2045	120	120	6	50	TO-3PF	Darlington	5
2SD2081	120	120	10	30	TO-220F	Darlington	4
2SD2082	120	120	16	75	TO-3PF	Darlington	5
2SD2083	120	120	25	120	TO-3P	Darlington	1
2SD2141	380±50	380±50	6	35	TO-220F	Darlington	4
2SD2389	160	150	8	80	TO-3P	Darlington	
2SD2390	160	150	10	100	TO-3P	Darlington	1
2SD2401	160	150	12	150	MT-200 (2-screw mount)	Darlington	2
2SD2438	160	150	8	75	TO-3PF	Darlington	
2SD2439	160	150	10	80	TO-3PF	Darlington	5
2SD2557	200	200	5	70	TO-3P	Darlington	1
2SD2558	200	200	5	60	TO-3PF	Darlington	5
2SD2560	150	150	15	130	TO-3P	Darlington	1
2SD2561	150	150	17	200	MT-200 (2-screw mount)	Darlington	2
2SD2562	150	150	15	85	TO-3PF	Darlington	5
2SD2589	110	110	6	50	TO-220	Darlington	3
2SD2641	110	110	6	60	TO-3P	Darlington	1
2SD2642	110	110	6	30	TO-220F	Darlington	4
2SD2643	110	110	6	60	TO-3PF	Darlington	5

## External Dimensions

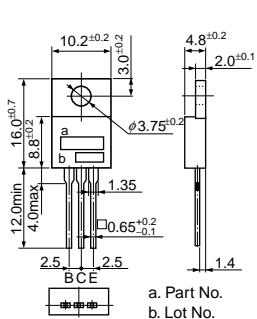
- No. 1 (TO-3P)



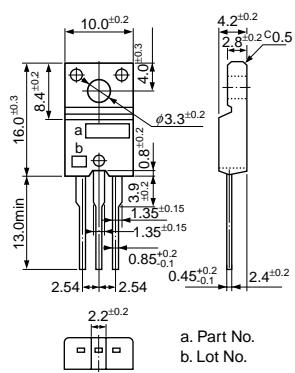
- No. 2 (MT-200)



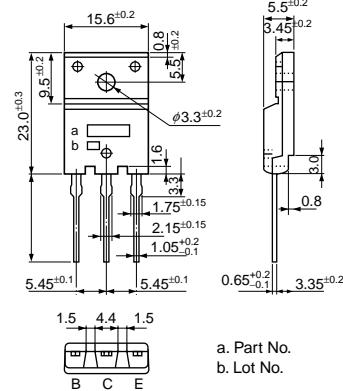
- No. 3 (TO-220)



- No. 4 (TO-220F)



- No. 5 (TO-3PF)

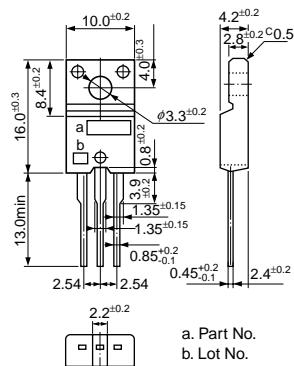


(unit: mm)

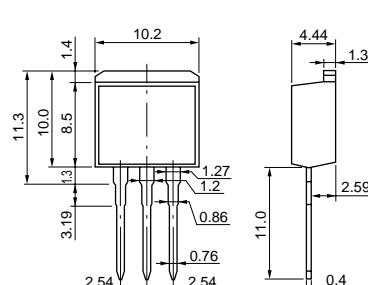
Part No.	V <sub>DSS</sub> (V)	R <sub>D(on)</sub> (max) (Ω)	I <sub>D</sub> (A)	Package	Remarks	Fig. No.
FKV460	40	9mΩ	60	TO-220F	Under development, For Automotive	1
FKV460S			60	TO-220S	For Automotive	2
FKV560	50	11mΩ	60	TO-220F	Under development, For Automotive	1
FKV560S			60	TO-220S	Under development, For Automotive	2
FKV550T		13mΩ	50	TO-220F		
2SK1188	60	0.2	10	TO-220F		1
2SK1189		0.1	15	TO-220F		
2SK1712		50mΩ	15	TO-220F	Logic Drive	
2SK1190		37mΩ	22	TO-220F		
2SK2419		28mΩ	25	TO-220F		
2SK1191		40	30	TO-220F		
2SK2420		20mΩ	30	TO-220F		
2SK1192		14mΩ	40	TO-3PF		3
2SK2421		80mΩ	40	TO-220F		
FKV660		50	50	TO-220F	Under development, For Automotive	
FKV660S		60	60	TO-220S	For Automotive	2
2SK1185	100	0.54	5	TO-220F		
2SK1186		0.27	9	TO-220F		
2SK1187		0.16	12	TO-220F		
2SK2778		0.175	12	TO-220F	Under development, Logic Drive	
2SK2779		80mΩ	20	TO-220F	Logic Drive	
2SK3332	150	0.2	12	TO-220F	Logic Drive	1
2SK3460		95mΩ	18	TO-220F		
2SK1183	200	1.5	3	TO-220F		
2SK1184		0.8	5	TO-220F		
2SK3002		0.35	8	TO-220F	Under development	
2SK3003		0.175	18	TO-220F		
2SK3004	250	0.25	18	TO-220F		
2SK2803	450	2.8	3	TO-220F		3
2SK2701		1.1	7	TO-220F		
2SK2702		0.8	10	TO-220F	Under development	
2SK2703		0.8	10	TO-3PF	Under development	1
2SK2704		0.57	13	TO-220F		3
2SK2705		0.57	13	TO-3PF	Under development	
2SK2805		0.38	15	TO-3PF	Under development	
2SK2706		0.3	18	TO-3PF	Under development	
2SK1177	500	3	2.5	TO-220F	UL approved type available	1
2SK1178		1.5	4	TO-220F	UL approved type available	
2SK3199		1.5	5	TO-220F		
2SK1179		0.85	8.5	TO-3PF	UL approved type available	3
2SK1180		0.6	10	TO-3PF	UL approved type available	1
2SK3200		1.1	10	TO-220F		3
2SK1181		0.4	13	TO-3PF	UL approved type available	
2SK2848	600	3.8	2	TO-220F		1
2SK2707		1.85	4.5	TO-220F	Under development	
2SK2708		1.1	7	TO-220F		
2SK2709		0.85	8.5	TO-3PF	Under development	3
2SK2710		0.55	12	TO-3PF	Under development	
2SK2943	900	5	3	TO-220F		1
2SK2945		3	5	TO-220F		
2SJ424	-60	0.5	5	TO-220F	Under development	1
2SJ425		0.28	8	TO-220F		

## External Dimensions

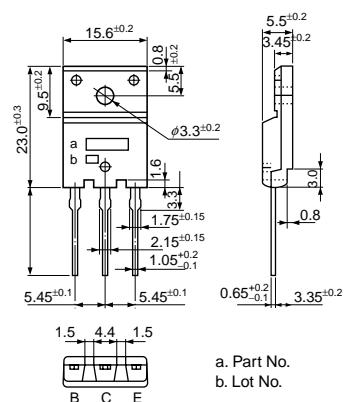
• No. 1 (TO-220F)



• No. 2 (TO-220S)



• No. 3 (TO-3PF)



(unit: mm)

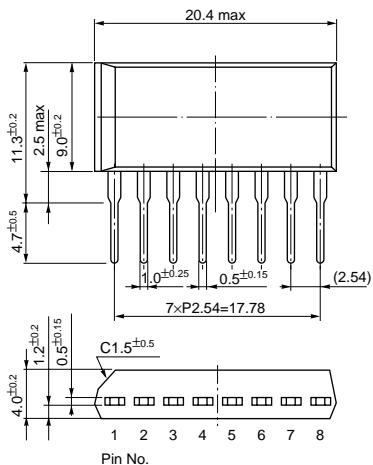
### 2-3-1 For Sink Drive

#### ■General Purpose

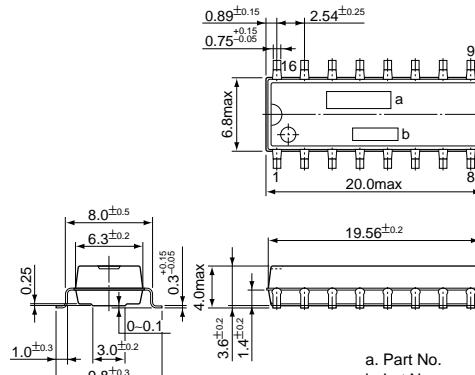
Part No.	Number of Circuits	V <sub>CEO</sub> (V) V <sub>DSS</sub> (V)	I <sub>C</sub> (A) I <sub>D</sub> (A)	Chip	h <sub>FE</sub> (min)	R <sub>DSON</sub> max(Ω)	Package	Fig. No.
STA312A	3	60	3	Bipolar	300		SIP8Pin	1
STA303A		100	4	Bipolar	1000		SIP8Pin	
SDC01		50	2	Bipolar	1000		SMD16Pin	2
STA412A		60	3	Bipolar	300		SIP10Pin	
STA504A			4	MOS		0.45	SIP10Pin	
STA501A			5	MOS		0.2	SIP10Pin	3
STA473A		100	2	Bipolar	2000		SIP10Pin	
STA506A				MOS		0.8	SIP10Pin	
SDK04				MOS		0.8	SMD16Pin	2
SMA4030			3	Bipolar	2000		SIP12Pin	4
STA505A				MOS		0.6	SIP10Pin	
STA403A			4	Bipolar	1000		SIP10Pin	3
SLA4030				Bipolar	2000		SIP12Pin with fin	5
SMA5101				MOS		0.6	SIP12Pin	4
SLA5001		150	5	MOS		0.3	SIP12Pin with fin	
SLA5037			10	MOS		0.08	SIP12Pin with fin	
SLA4060			120	Bipolar	2000		SIP12Pin with fin	5
SLA5047				MOS		0.085	SIP12Pin with fin	
SLA5052				MOS		0.115	SIP12Pin with fin	
SLA5077				MOS		0.2	SIP12Pin with fin	
STA404A	4	200	3	Bipolar	1000		SIP10Pin	3
SLA5041			10	MOS		0.175	SIP12Pin with fin	
SLA5044			250	MOS		0.25	SIP12Pin with fin	
SLA5029	5	60	4	MOS		0.45	SIP12Pin with fin	5
SLA5011			5	MOS		0.22	SIP12Pin with fin	
SLA5085				MOS		0.22	SIP12Pin with fin	
SLA5021		100	5	MOS		0.19	SIP12Pin with fin	
SLA5042				MOS		0.185	SIP12Pin with fin	
SLA5055		150	$\pm 5/\pm 7$	MOS		0.44/0.2	SIP12Pin with fin	
SLA5088				MOS		0.44/0.2	SIP15Pin with fin	6
SLA5058			$\pm 7$	MOS		0.2	SIP12Pin with fin	5
SLA5081			$\pm 7/\pm 7$	MOS		0.105/0.2	SIP15Pin with fin	6
SLA5046	6	200	7	MOS		0.35	SIP12Pin with fin	5
SLA5049		250	7	MOS		0.5	SIP12Pin with fin	
SLA5054		150	$\pm 7/\pm 5/\pm 7$	MOS		0.105/0.44/0.2	SIP15Pin with fin	
SLA5070			$\pm 7/\pm 7$	MOS		0.105/0.2	SIP15Pin with fin	
SLA5057		200	$\pm 7/\pm 7$	MOS		0.175/0.35	SIP15Pin with fin	6

## External Dimensions

- No. 1 (STA 8 pin)

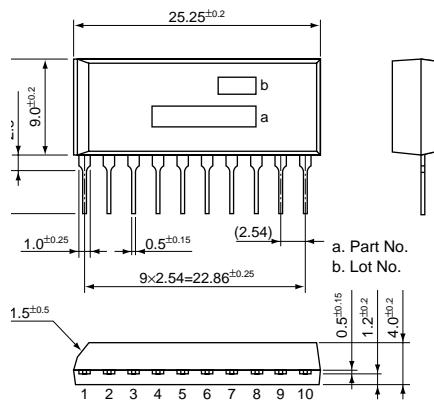


- No. 2 (SD)

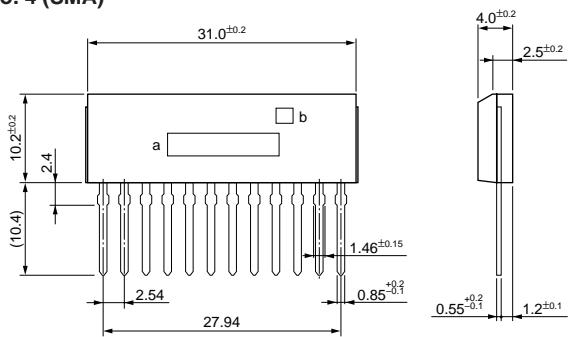


- a. Part No.
- b. Lot No.

- No. 3 (STA 10 pin)

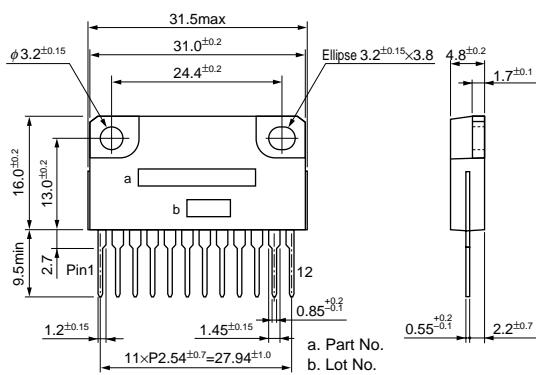


- No. 4 (SMA)

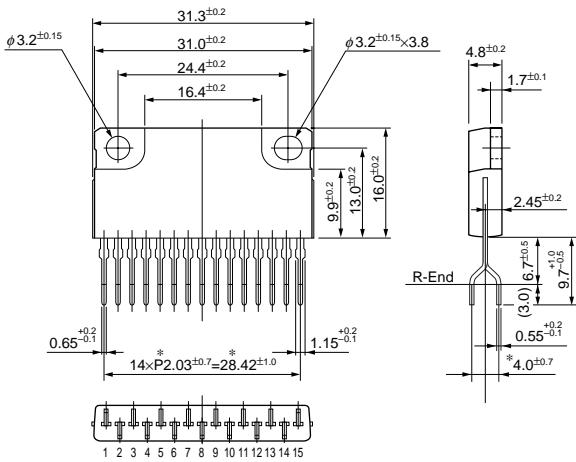


- a. Part No.
- b. Lot No.

- No. 5 (SLA 12 pin)



- No. 6 (SLA 15 pin)



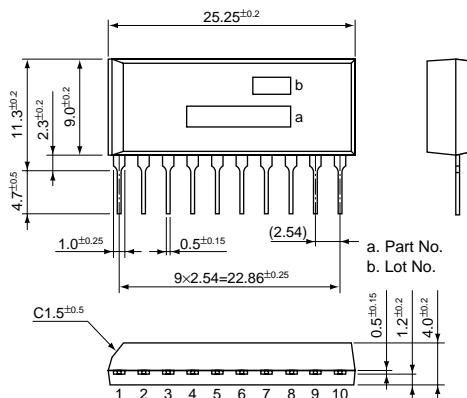
(unit: mm)

### With Built-in Avalanche Diode between Collector and Base

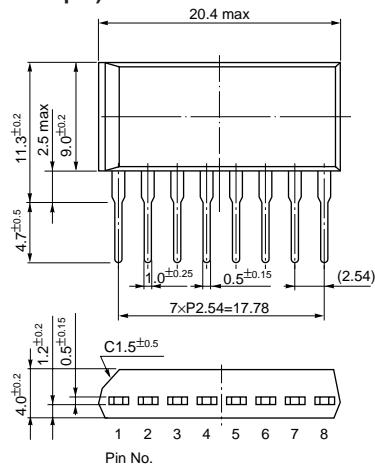
Part No.	Number of Circuits	$V_{CEO}(V)$ / $V_{DSS}(V)$	$I_C(A)$ / $I_D(A)$	Chip	$h_{FE}$ (min)	$R_{DS(ON)}$ max( $\Omega$ )	Package	Fig. No.	
STA460C	2	60±10	6	Bipolar	700		SIP10Pin	1	
STA371A	3		2	Bipolar	2000		SIP8Pin		
STA301A			4	Bipolar	1000		SIP8Pin	2	
SDC06	4	30~45	2	Bipolar	400		SMD16Pin	3	
STA413A		35±5	3	Bipolar	500		SIP10Pin		
STA481A		60±10	1	Bipolar	2000		SIP10Pin	1	
SDC03			1.5	Bipolar	2000		SMD16Pin	3	
STA471A			2	Bipolar	2000		SIP10Pin		
STA401A			4	Bipolar	1000		SIP10Pin	1	
SLA4010			6	Bipolar	2000		SIP12Pin with fin	4	
STA406A		65±15	4	Bipolar	2000		SIP10Pin		
STA435A			1	Bipolar	1000		SIP10Pin	1	
STA485A		100±15	1.5	Bipolar	2000		SIP10Pin		
SDC04			2	Bipolar	2000		SMD16Pin	3	
STA475A							SIP10Pin	1	

### External Dimensions

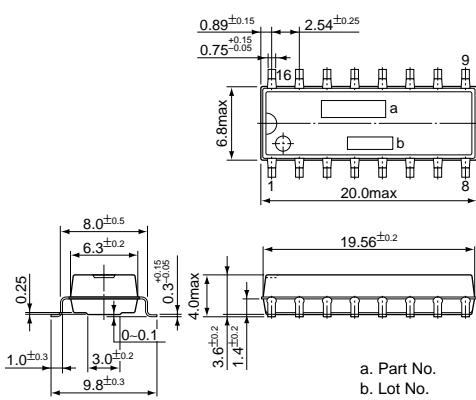
• No. 1 (STA 10 pin)



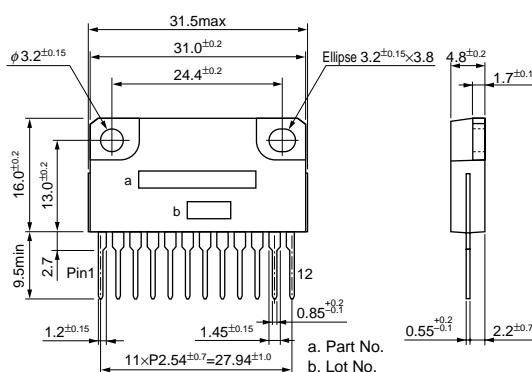
• No. 2 (STA 8 pin)



• No. 3 (SD)



• No. 4 (SLA 12 pin)



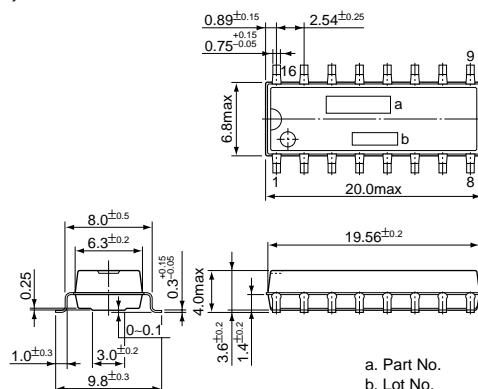
(unit: mm)

### With Built-in Flywheel Diode

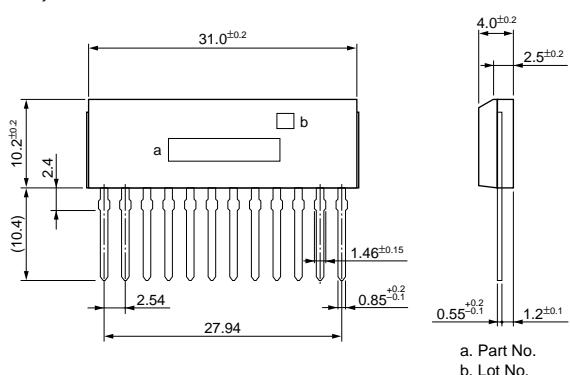
Part No.	Number of Circuits	$V_{CEO}(V)$ / $V_{DSS}(V)$	$I_C(A)$ / $I_B(A)$	Chip	$h_{FE}$ (min)	$R_{DS(ON)}$ max( $\Omega$ )	Package	Fig. No.
SDK02	4	60	2	MOS		0.24	SMD16Pin	1
SMA5114			3	MOS		0.25	SIP12Pin	2
SLA5031			5	MOS		0.3	SIP12Pin with fin	3
SDH02		100	1.5	Bipolar	2000		SMD16Pin	1
SMA4033			2	Bipolar	2000		SIP12Pin	2
SMA4032			3	Bipolar	2000		SIP12Pin	2
SLA5040				MOS		0.6	SIP12Pin with fin	3
SMA5102		120	4	MOS		0.6	SIP12Pin	2
SMA5106				MOS		0.55	SIP12Pin	2
SLA5002			5	MOS		0.3	SIP12Pin with fin	3
SMA5105				MOS		0.3	SIP12Pin	2
SLA4031		4	Bipolar	2000			SIP12Pin with fin	
SLA4061		5	Bipolar	2000			SIP12Pin with fin	
SLA4041		3	Bipolar	1000			SIP12Pin with fin	
SLA5003		5	MOS			0.9	SIP12Pin with fin	3

### External Dimensions

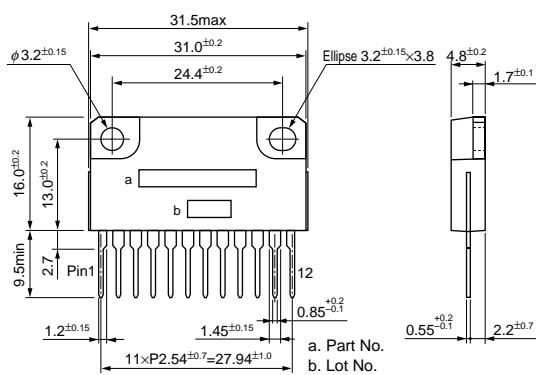
• No. 1 (SD)



• No. 2 (SMA)



• No. 3 (SLA 12 pin)



(unit: mm)

## 2-3-2 For Source Drive

### ■ General Purpose

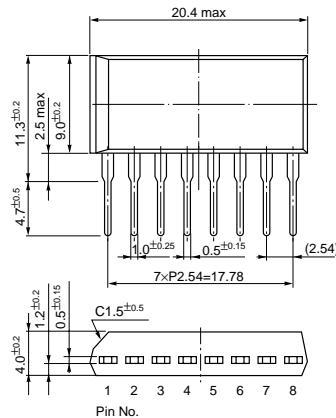
Part No.	Number of Circuits	$V_{CEO(V)}$ / $V_{DSS(V)}$	$I_C(A)$ / $I_D(A)$	Chip	$hFE$ (min)	$R_{DS(ON)}$ max( $\Omega$ )	Package	Fig. No.
STA322A	3	-50	-3	Bipolar	100		SIP8Pin	1
STA302A			-4	Bipolar	1000		SIP8Pin	
STA308A			-120	Bipolar	2000		SIP8Pin	
STA402A	4	-50	-4	Bipolar	1000		SIP10Pin	2
SDA01			-1.5	Bipolar	2000		SMD16Pin	3
STA472A			-2	Bipolar	2000		SIP10Pin	2
STA421A			-3	Bipolar	40		SIP10Pin	
SMA4020	4	-60	Bipolar	2000	0.55	SIP12Pin	4	
SLA5024								
SLA5004			-5	MOS		0.3	SIP12Pin with fin	5
SLA4070			-5	Bipolar	1000		SIP12Pin with fin	
SLA5005	5	-100	-5	MOS		0.7	SIP12Pin with fin	
STA408A			-4	Bipolar	2000		SIP10Pin	2
SLA5015			-4	MOS		0.55	SIP12Pin with fin	5
SLA5012			-5	MOS		0.3	SIP12Pin with fin	
SLA5086			-5	MOS		0.22	SIP12Pin with fin	

### ■ With Built-in Flywheel Diode

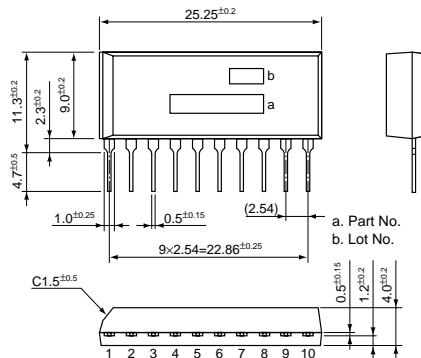
Part No.	Number of Circuits	$V_{CEO(V)}$ / $V_{DSS(V)}$	$I_C(A)$ / $I_D(A)$	Chip	$hFE$ (min)	$R_{DS(ON)}$ max( $\Omega$ )	Package	Fig. No.
SMA4021	4	-60	-3	Bipolar	2000		SIP12Pin	4
SLA4071			-5	Bipolar	2000		SIP12Pin with fin	5
SLA5006				MOS		0.7	SIP12Pin with fin	

### External Dimensions

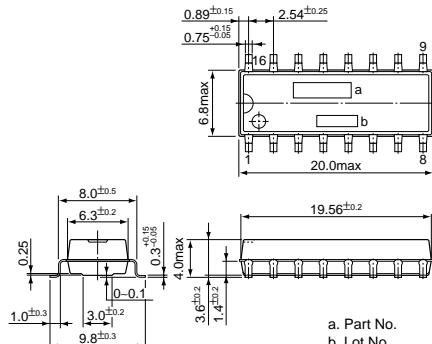
• No. 1 (STA 8 pin)



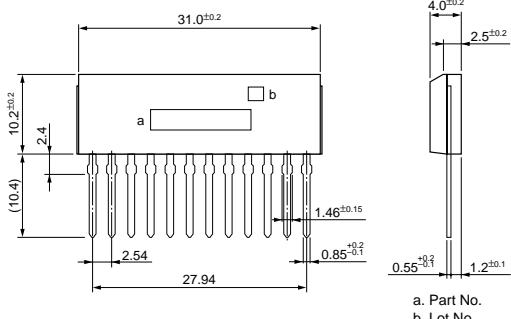
• No. 2 (STA 10 pin)



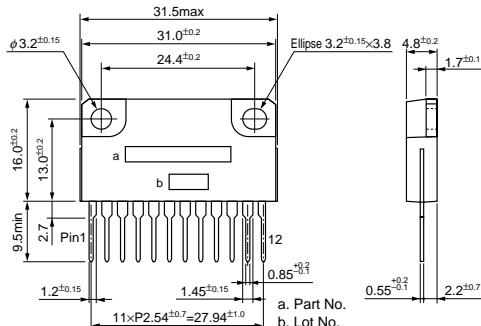
• No. 3 (SD)



• No. 4 (SMA)



• No. 5 (SLA 12 pin)



(unit: mm)

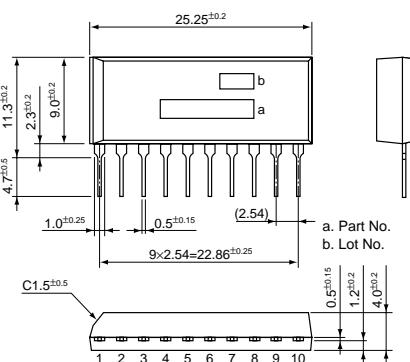
### 2-3-3 For Motor Drive

#### ■H-Bridge

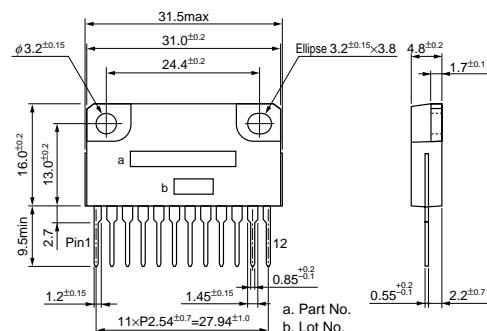
Part No.	Number of Circuits	V <sub>CEO</sub> (V) V <sub>DSS</sub> (V)	I <sub>C</sub> (A) I <sub>D</sub> (A)	Chip	h <sub>FE</sub> (min)	R <sub>DS(ON)</sub> max(Ω)	Package	Fig. No.
STA458C	4	±30	±5	Bipolar	40		SIP10Pin	1
STA431A			±3	Bipolar	40		SIP10Pin	
STA434A			±4	Bipolar	1000		SIP10Pin	
STA457C			±4	Bipolar	2000		SIP10Pin	
SLA4310		±60	±80	Bipolar	80		SIP12Pin with fin	2
SLA4340			±2000	Bipolar	2000		SIP12Pin with fin	
SLA5007			+5/-4	MOS		0.22/0.55	SIP12Pin with fin	
SLA5018				MOS		0.22/0.55	SIP12Pin with fin	
SMA5103				MOS		0.22/0.55	SIP12Pin	3
SLA8001		±12	Bipolar	50			SIP12Pin with fin	2
SDH03	100	±1.5	Bipolar	2000			SMD16Pin	4
SLA5008			+4/-3	MOS		0.6/1.3	SIP12Pin with fin	2
SLA4390				Bipolar	2000		SIP12Pin with fin	
SLA4391				Bipolar	1000		SIP12Pin with fin	
SLA5013						0.3/0.7	SIP12Pin with fin	2

#### External Dimensions

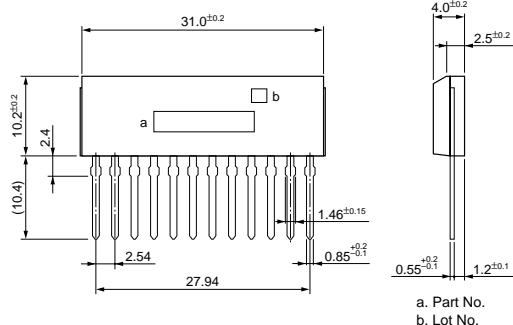
• No. 1 (STA 10 pin)



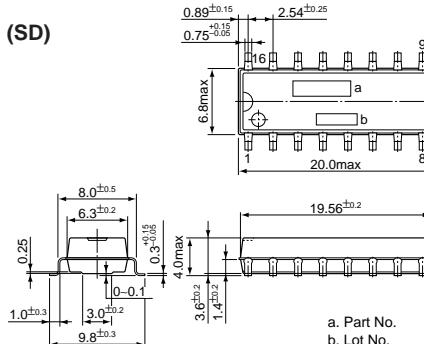
• No. 2 (SLA 12 pin)



• No. 3 (SMA)



• No. 4 (SD)



(unit: mm)

**For 3-Phase Motor Drive**

Part No.	Number of Circuits	V <sub>CEO</sub> (V) V <sub>DSS</sub> (V)	I <sub>C</sub> (A) I <sub>D</sub> (A)	Chip	h <sub>FE</sub> (min)	R <sub>DSON</sub> max(Ω)	Package	Fig. No.
SDC07	3	60	4	Bipolar	2000		SMD16Pin	1
SLA5080			10	MOS		0.14	SIP12Pin with fin	2
STA303A		100	4	Bipolar	1000		SIP8Pin	
STA304A		550	1	Bipolar	200		SIP8Pin	
STA302A		-50	-4	Bipolar	1000		SIP8Pin	
SDA05		-60	-4	Bipolar	2000		SMD16Pin	1
SLA5079			-10	MOS		0.14	SIP12Pin with fin	2
STA305A		-550	-1	Bipolar	200		SIP8Pin	3
SMA6014	6	±60	±2	Bipolar	1500/2000		SIP12Pin	4
SLA5059			±4	MOS		0.55	SIP12Pin with fin	2
SMA6010				Bipolar	2000		SIP12Pin	4
SLA6012				Bipolar	2000		SIP12Pin with fin	2
SMA5127			+5/-4	MOS		0.55	SIP12Pin	4
SLA5009				MOS		0.22/0.55	SIP12Pin with fin	
SLA5017				MOS		0.22/0.55	SIP12Pin with fin	2
SMA5104				MOS		0.22/0.55	SIP12Pin	4
SLA5060			±6	MOS		0.22	SIP12Pin with fin	
SLA5022				Bipolar	2000	0.22	SIP12Pin with fin	
SLA6023				Bipolar	2000		SIP12Pin with fin	
SLA6024			±8	Bipolar	2000		SIP12Pin with fin	
SLA5061			±10	MOS		0.14	SIP12Pin with fin	
SLA5064				MOS		0.14	SIP12Pin with fin	
SLA6026				Bipolar	2000		SIP12Pin with fin	
SMA5125				MOS		0.14	SIP12Pin	4
SLA6022	6	±80	±5	Bipolar	2000		SIP12Pin with fin	
SLA5010			+4/-3	MOS		0.6/1.3	SIP12Pin with fin	
SLA6020			±5	Bipolar	2000		SIP12Pin with fin	
SLA5023			±6	Bipolar	2000	0.55	SIP12Pin with fin	
SLA5072		250	7	MOS		0.5	SIP15Pin with fin	5
SMA5112				MOS		0.5	SIP12Pin	
SMA5117				MOS		0.25	SIP12Pin	4
SLA5075			±5	MOS		1.4	SIP15Pin with fin	5
SMA5118			MOS		1.4	SIP12Pin	4	

**For 5-Phase Motor Drive**

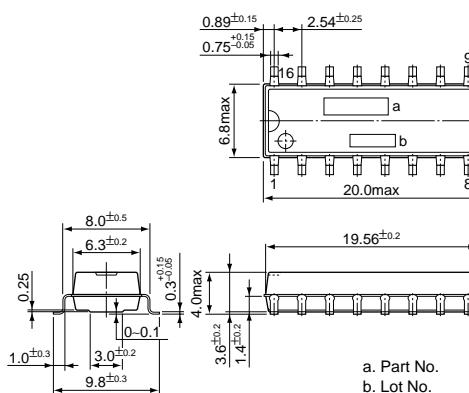
Part No.	Number of Circuits	V <sub>CEO</sub> (V) V <sub>DSS</sub> (V)	I <sub>C</sub> (A) I <sub>D</sub> (A)	Chip	h <sub>FE</sub> (min)	R <sub>DSON</sub> max(Ω)	Package	Fig. No.
SLA5074	4	60	5	MOS		0.3	SIP15Pin with fin	
SLA5065			7	MOS		0.1	SIP15Pin with fin	
SLA5073		60	5	MOS		0.3	SIP15Pin with fin	
SLA5068			7	MOS		0.1	SIP15Pin with fin	

**For Stepper Motor Dual Power Supply Drive**

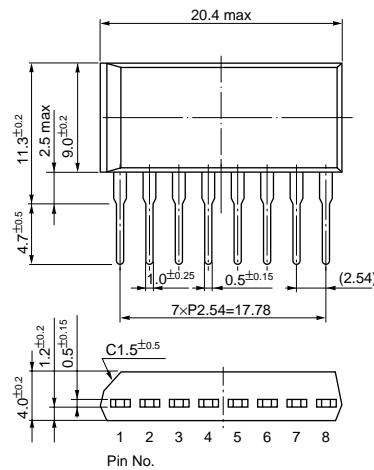
Part No.	Number of Circuits	V <sub>CEO</sub> (V) V <sub>DSS</sub> (V)	I <sub>C</sub> (A) I <sub>D</sub> (A)	Chip	h <sub>FE</sub> (min)	R <sub>DSON</sub> max(Ω)	Package	Fig. No.
SMA6512	5	60±10/-60	1.5/-3	Bipolar	2000		SIP12Pin	
SMA6511		100±15/-60	1.5/-3	Bipolar	2000		SIP12Pin	4

## External Dimensions

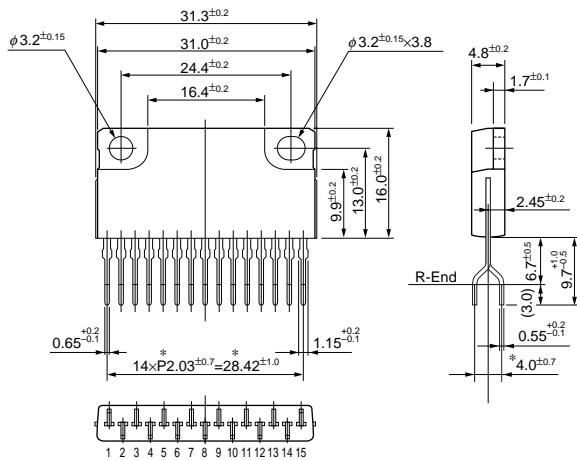
- No. 1 (SD)



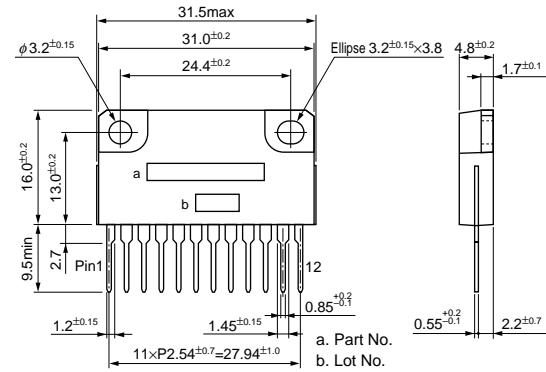
- No. 3 (STA 8 pin)



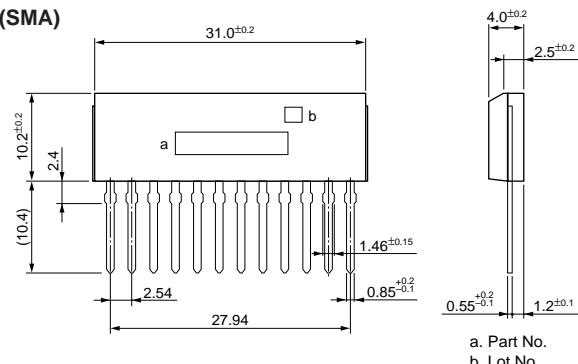
- No. 5 (SLA 15 pin)



- No. 2 (SLA 12 pin)



- No. 4 (SMA)



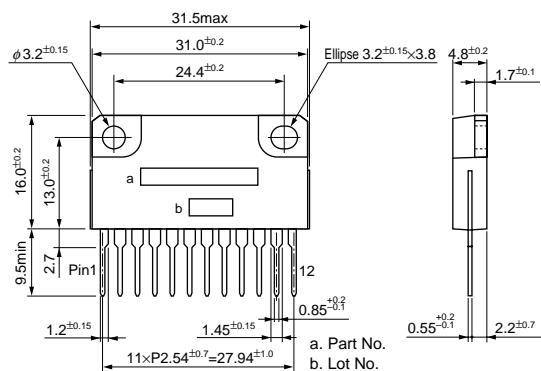
(unit: mm)

## 2-3-4 MOS Array for "S" shape Collection Switch of CRT Display

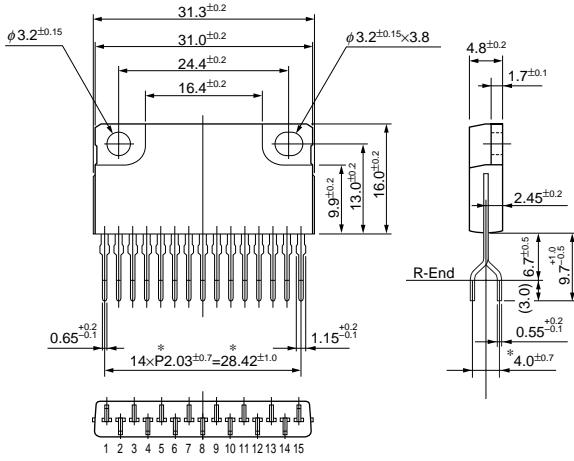
Part No.	Number of Circuits	V <sub>DSS</sub> (V)	I <sub>D</sub> (A)	Chip	R <sub>DSON</sub> max(Ω)	Package	Fig. No.
SLA5037	4	100	10	MOS	80	SIP12Pin with fin	1
SLA5047			10	MOS	85	SIP12Pin with fin	
SLA5052		150	10	MOS	115	SIP12Pin with fin	
SLA5077			10	MOS	200	SIP12Pin with fin	
SLA5041		200	10	MOS	175	SIP12Pin with fin	
SLA5044		250	10	MOS	250	SIP12Pin with fin	
SLA5042	5	100	5	MOS	185	SIP12Pin with fin	2
SLA5021			5	MOS	190	SIP12Pin with fin	
SLA5058			7	MOS	200	SIP12Pin with fin	
SLA5081		150	7	MOS	105/200	SIP15Pin with fin	
SLA5055			5/7	MOS	200/440	SIP12Pin with fin	
SLA5088			5/7	MOS	200/440	SIP15Pin with fin	
SLA5046	6	200	7	MOS	350	SIP12Pin with fin	1
SLA5049		250	7	MOS	500	SIP12Pin with fin	
SLA5070		150	7	MOS	105/200	SIP15Pin with fin	
SLA5054			7/5/7	MOS	105/200/440	SIP15Pin with fin	
SLA5057		200	7	MOS	175/350	SIP15Pin with fin	

## External Dimensions

• No. 1 (SLA 12 pin)



• No. 2 (SLA 15 pin)



(unit: mm)

# 3

## *Thyristors*

<b>3-1 Thyristors .....</b>	<b>34</b>
3-1-1 Thyristors .....	34
3-1-2 3-Terminal Thyristor with built-in Reverse Diode for HID Lamp Ignition .....	35
3-1-3 Thyristors with Built-in Avalanche Diode .....	35
<b>3-2 Triacs .....</b>	<b>36</b>
<b>3-3 PNPN Switches .....</b>	<b>38</b>

### 3-1-1 Thyristors

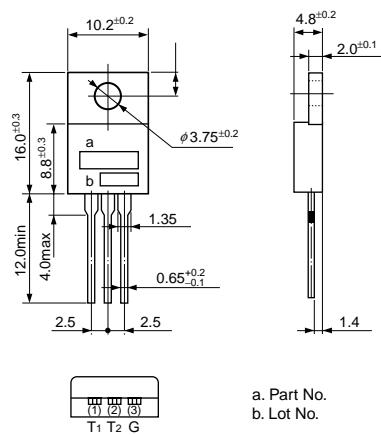
Part No.	V <sub>DRM</sub> (V)	I <sub>T</sub> (A) (A)	I <sub>GT</sub> (max) (mA)	Package	Fig. No.
TF321M-A	200	3	0.1	TO-220	1
TF321M			10	TO-220	
TF321S			15	TO-220F	2
TF521M		5	15	TO-220	1
TF521S				TO-220F	2
TF821M		8	15	TO-220	1
TF821S				TO-220F	2
TF341S		3	15	TO-220F	
TF341M-A			0.1	TO-220	1
TF341M			10	TO-220	
TF541S-A		5	0.2	TO-220F	2
TF541M			15	TO-220	1
* TF541S				TO-220F	2
TF841M		8	15	TO-220	1
* TF841S				TO-220F	2

Part No.	V <sub>DRM</sub> (V)	I <sub>T</sub> (A) (A)	I <sub>GT</sub> (max) (mA)	Package	Fig. No.
TF361M-A	600	3	0.1	TO-220	1
TF361M			10	TO-220	
TF361S			15	TO-220F	2
TF561S-A		5	0.2	TO-220F	
TF561M			15	TO-220	1
* TF561S		5x4 circuits		TO-220F	2
SLA0201			10	SIP12Pin	3
TF861M		8	15	TO-220	1
* TF861S				TO-220F	2

\* UL recognized products are available.

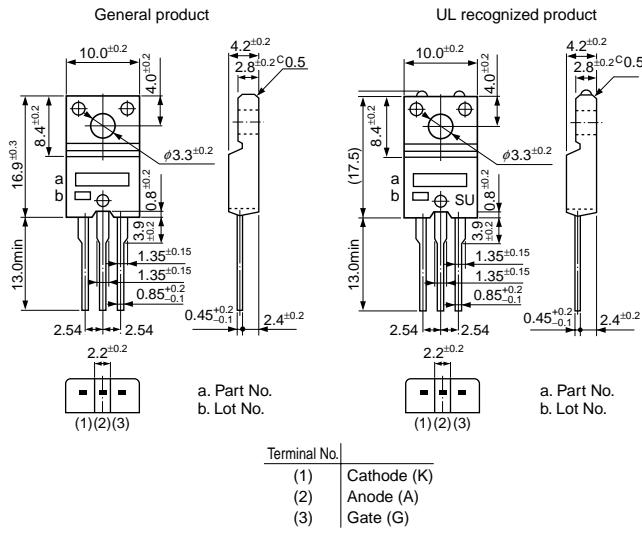
### External Dimensions

#### • No. 1



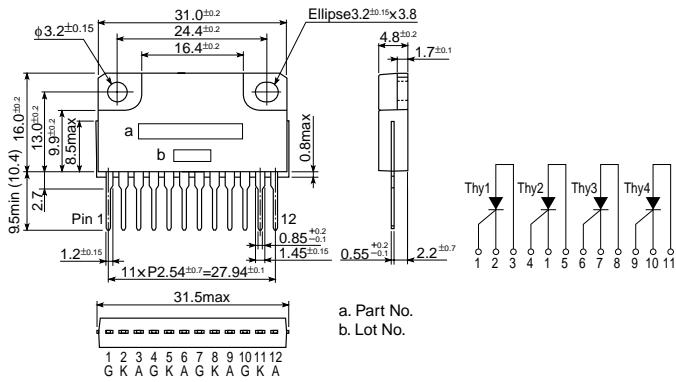
a. Part No.  
b. Lot No.

#### • No. 2



Terminal No.	
(1)	Cathode (K)
(2)	Anode (A)
(3)	Gate (G)

#### • No. 3



a. Part No.  
b. Lot No.

(unit: mm)

### 3-1-2 3-Terminal Thyristor with built-in Reverse Diode for HID Lamp Ignition

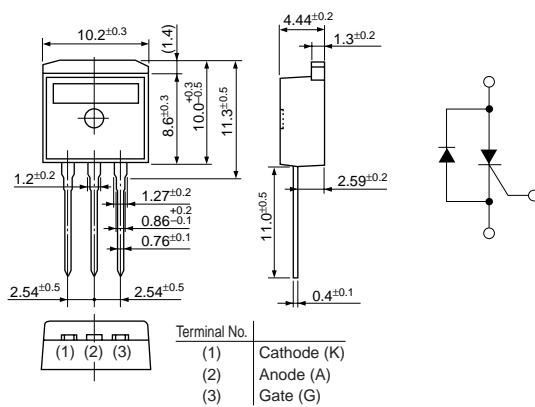
Part No.	$V_{DRM}$ (V)	$I_{TRM}$ (A)	$di/dt$ (A/ $\mu$ s)	Package	Fig. No.
TFC561D	600	430	1200	TO-220S	1

### 3-1-3 Thyristors with Built-in Avalanche Diode

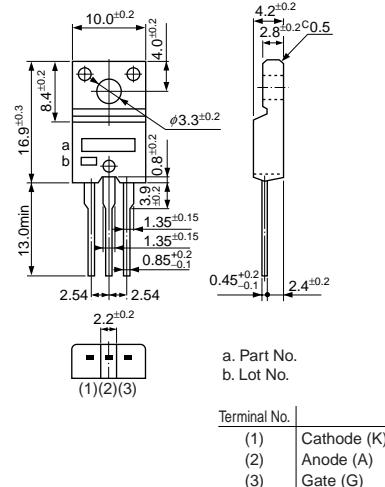
Part No.	$V_{BO}$ (V)	$V_{DRM}$ (V)	$I_t(AV)$ (A)	Package	Fig. No.
TFD312S-C	30±3	20	3	TO-220F	2
TFD312S-F	55±5	35			
TFD312S-G	65±5	45			
TFD312S-J	100±10	80			
TFD312S-K	125±10	100			
TFD312S-L	150±10	120			
TFD312S-M	175±12	145			
TFD312S-N	200±15	170			
TFD312S-O	225±15	190			

#### External Dimensions

• No. 1



• No. 2



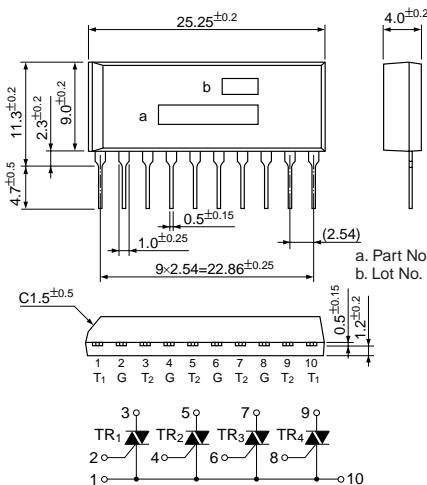
(unit: mm)

Part No.	V <sub>DRM</sub> (V)	I <sub>T(AV)</sub> (A)	I <sub>GTR(max)</sub> (mA)	Package	Remarks	Fig. No.
STA221A	400	1.0 × 4 circuits	3	SIP10Pin	Array	1
STA203A		1.2 × 3 circuits	3	SIP8Pin	Array	2
* TM341S-R		3	12	TO-220F	For R load	3
TM341M-L			20	TO-220	For L load	4
* TM341S-L				TO-220F	For L load	
* TM541S-R			12	TO-220F	For R load	3
TM541M-L		5	20	TO-220	For L load	4
* TM541S-L				TO-220F	For L load	3
TM841M-L			8	TO-220	For L load	4
* TM841S-L			30	TO-220F	For L load	
* TM1041S-R		10	7	TO-220F	For R load	
* TM1041S-L			30	TO-220F	For L load	
* TM1241S-R		12	8	TO-220F	For R load	3
* TM1241S-L			30	TO-220F	For L load	
* TM1641S-L		16		TO-220F	For L load	
TM1641P-L(L)			30	TO-3P	For L load	5
* TM1641B-L				TO-3PF	For L load	
* TM2541B-L		25	30	TO-3PF	For L load	6
* TM361S-R	600	3	12	TO-220F	For R load	3
TM361M-L			20	TO-220	For L load	4
* TM361S-L				TO-220F	For L load	
* TM561S-R		5	12	TO-220F	For R load	3
TM561M-L			20	TO-220	For L load	4
* TM561S-L				TO-220F	For L load	3
TM861M-L		8	30	TO-220	For L load	4
* TM861S-L				TO-220F	For L load	
* TM1061S-R			7	TO-220F	For R load	
* TM1061S-L		10	30	TO-220F	For L load	
* TM1261S-R			8	TO-220F	For R load	3
* TM1261S-L		12	30	TO-220F	For L load	
* TM1661S-L				TO-220F	For L load	
TM1661P-L(L)		16	30	TO-3P	For L load	5
* TM1661B-L				TO-3PF	For L load	
* TM2561B-L			25	TO-3PF	For L load	6
TM583S-L	800	5	20	TO-220F	For L load	
TM883S-L		8	30	TO-220F	For L load	3

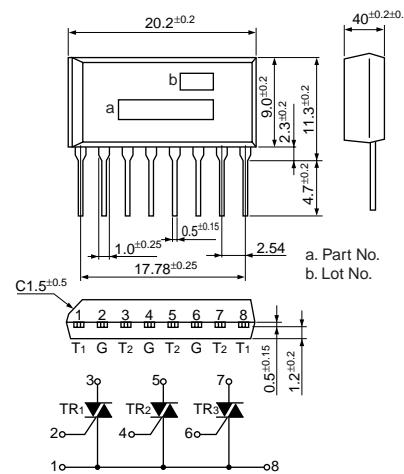
\*UL recognized products are available.

## External Dimensions

• No. 1

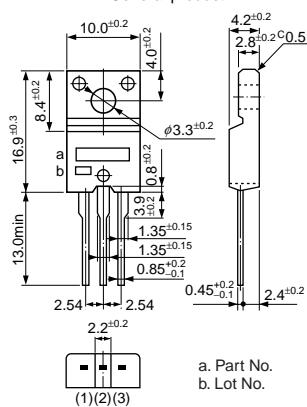


• No. 2

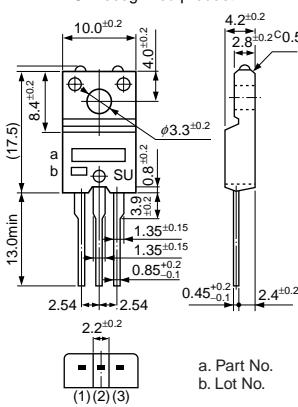


• No. 3

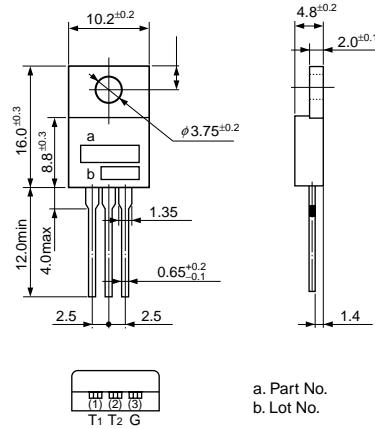
## General products



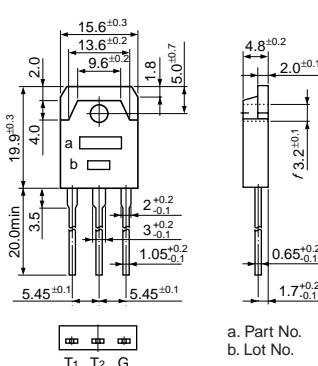
UL recognized product



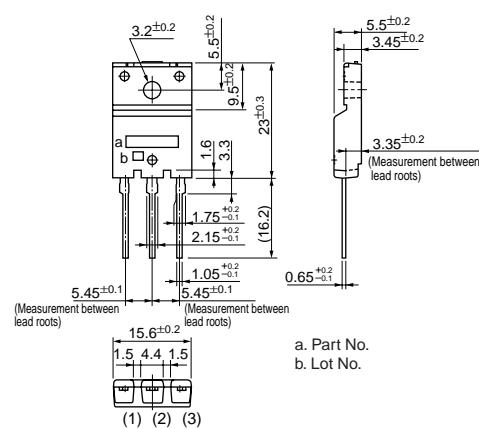
• No. 4



• No. 5



• No. 6



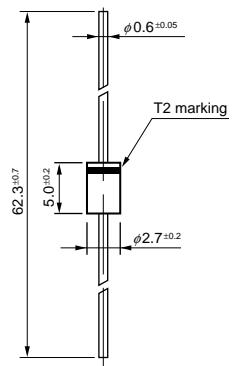
- (1). Terminal 1 (T<sub>1</sub>)
- (2). Terminal 2 (T<sub>2</sub>)
- (3). Gate (G)

(unit: mm)

Part No.	V <sub>BO</sub> (V)	V <sub>DRM</sub> (V)	I <sub>T</sub> (RMS) (A)	Package	Fig. No.
ET013	120~138	90	0.6	Axial	1
ET015	142~157	115			
ET020	190~210	170			

### External Dimensions

• No. 1



(unit: mm)

# 4

## Diodes

<b>4-1 Rectifier Diodes .....</b>	<b>40</b>
4-1-1 1 Chip .....	40
4-1-2 2 Chip .....	41
4-1-3 Bridge .....	41
<b>4-2 Fast Recovery Rectifier Diodes .....</b>	<b>42</b>
4-2-1 1 Chip .....	42
4-2-2 2 Chip .....	44
<b>4-3 Ultra-Fast Recovery Rectifier Diodes .....</b>	<b>46</b>
4-3-1 1 Chip .....	46
4-3-2 2 Chip .....	48
4-3-3 Bridge .....	49
<b>4-4 Schottky Barrier Diodes .....</b>	<b>50</b>
4-4-1 1 Chip .....	50
4-4-2 2 Chip .....	52
4-4-3 Bridge .....	53
<b>4-5 High-Voltage Rectifier Diodes .....</b>	<b>54</b>
<b>4-6 Damper Diodes .....</b>	<b>55</b>
4-6-1 Damper Diodes .....	55
4-6-2 DM Damper Diodes .....	56
<b>4-7 Avalanche Diodes with Built-in Thyristor .....</b>	<b>57</b>
<b>4-8 Power Zener Diodes .....</b>	<b>58</b>
<b>4-9 Silicon Varistors .....</b>	<b>59</b>

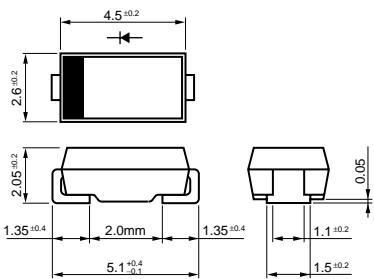
## 4-1-1 1 Chip

Part No.	V <sub>RM</sub> (V)	I <sub>F</sub> (A)	I <sub>FSM</sub> (A)	Package	Fig. No.
EM 1Y	100	1.0	45	Axial(E1)	4
RM 4Y		3.0	200	Axial(R4)	8
SFPM-52		0.9	30	Surface mount (SFP)	1
AM01Z		35		Axial(A0)	2
SFPM-62		45		Surface mount (SFP)	1
EM01Z		45		Axial(E0)	3
EM 1Z		45		Axial(E1)	4
RM 1Z		50		Axial(R1)	5
RO 2Z		80		Axial(R2)	6
RM 2Z		100		Axial(R1)	5
RM 10Z		1.5	120	Axial(R1)	5
RM 4Z		3.0	200	Axial(R4)	8
SFPM-54		0.9	30	Surface mount (SFP)	1
AM01		35		Axial(A0)	2
SFPM-64		45		Surface mount (SFP)	1
EM01		45		Axial(E0)	3
EM 1		45		Axial(E1)	4
RM 1		50		Axial(R1)	5
EM 2		80		Axial(E1)	4
RO 2		80		Axial(R2)	6
RM 2		100		Axial(R1)	5
RM 10		150		Axial(R1)	5
RM 3		2.5	150	Axial(R3)	7
RM 4		3.0	200	Axial(R4)	8
AM01A	600	1.0	35	Axial(A0)	2

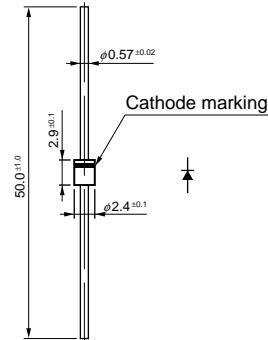
Part No.	V <sub>RM</sub> (V)	I <sub>F</sub> (A)	I <sub>FSM</sub> (A)	Package	Fig. No.
EM01A	1.0	45		Axial(E0)	3
EM 1A				Axial(E1)	4
RM 1A	1.2	50		Axial(R1)	5
EM 2A				Axial(E1)	4
RO 2A	600	80		Axial(R2)	6
RM 11A				Axial(R1)	5
RM 2A	1.2	100		Axial(R2)	6
RM 10A				Axial(R1)	5
RM 3A	2.5	150		Axial(R3)	7
RM 4A				Axial(R4)	8
RM 4AM	3.2	350		Axial(R4)	8
RM 1B				Axial(R1)	5
EM 1B	1.0	35		Axial(E1)	4
EM 2B				Axial(E1)	4
RO 2B	800	80		Axial(R2)	6
RM 11B				Axial(R1)	5
RM 2B	1.2	100		Axial(R2)	6
RM 10B				Axial(R1)	5
RM 3B	2.5	150		Axial(R3)	7
RM 4B				Axial(R4)	8
RM 1C	3.0	150		Axial(R4)	8
EM 1C				Axial(E1)	4
RO 2C	1.0	35		Axial(R2)	6
RM 11C				Axial(R1)	5
RM 2C	1.2	100		Axial(R2)	6
RM 3C				Axial(R3)	7
RM 4C	3.0	150		Axial(R4)	8
AM01A				Axial(E1)	4

## External Dimensions

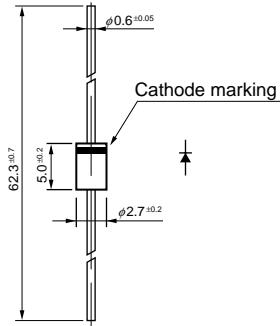
• No. 1 Surface Mount (SFP)



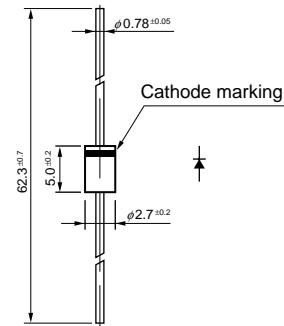
• No. 2 Axial (A0)



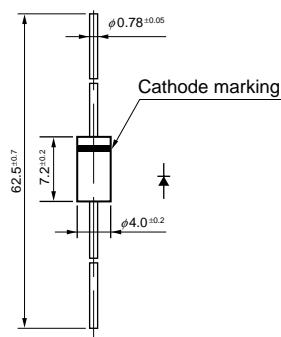
• No. 3 Axial (E0)



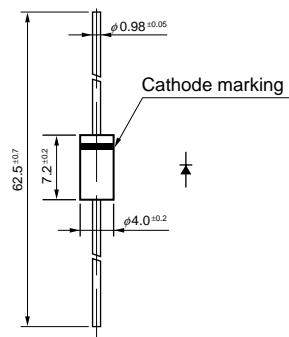
• No. 4 Axial (E1)



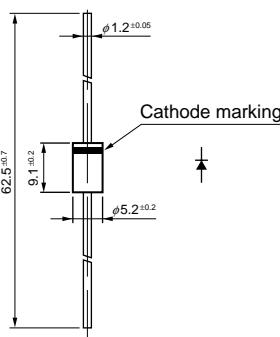
• No. 5 Axial (R1)



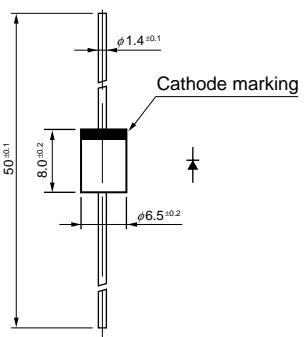
• No. 6 Axial (R2)



• No. 7 Axial (R3)



• No. 8 Axial (R4)



(unit: mm)

## 4-1-2 2 Chip

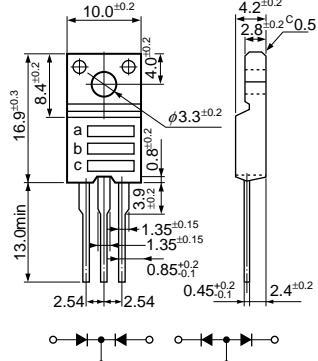
Part No.	V <sub>RM</sub> (V)	I <sub>F</sub> (A)	I <sub>FSM</sub> (A)	Package	Fig. No.
FMM-31S, R	100	20	120	FM80	2
FMM-22S, R		10	100	TO-220F	1
FMM-32S, R	200	20	120	FM80	2
FMM-24S, R		10	100	TO-220F	1
FMM-34S, R	400	20	120	FM80	2
FMM-26S, R		10	100	TO-220F	1
FMM-36S, R	600	20	120	FM80	2

## 4-1-3 Bridge

Part No.	V <sub>RM</sub> (V)	I <sub>F</sub> (A)	I <sub>FSM</sub> (A)	Package	Fig. No.
RBV-401			4.0	RBV-40	3
RBV-601	100		6.0	RBV-60	4
RBV-402			4.0	RBV-40	3
RBV-602	200		6.0	RBV-60	4
RBV-4102			10	RBV-40	3
RBV-404	400		4.0	RBV-40	3
RBV-604			6.0	RBV-60	4
RBV-406			80		
RBV-406H		4.0	120	RBV-40	3
RBV-406M			120		
RBV-606	600		6.0	RBV-60	4
RBV-606H			120		
RBV-1306			140		
RBV-1506			13	RBV-60	4
RBV-1506S			80		
RBV-2506			200		
RBV-408	800		15		
RBV-608			150		
RBV-40C	1000		25		
			350		
			4.0	RBV-40	3
			6.0	RBV-60	4
			4.0	RBV-40	3

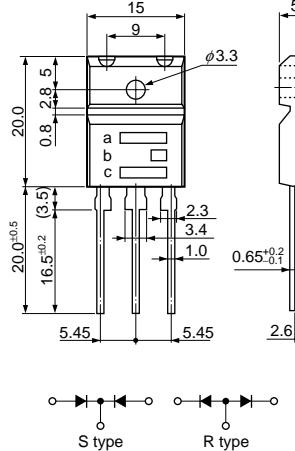
### External Dimensions

#### • No. 1 (TO-220F)



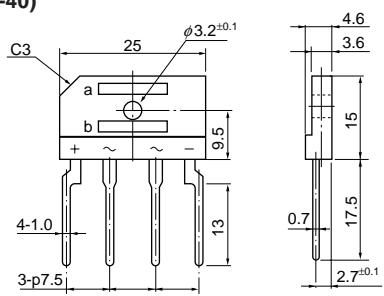
a. Part No.  
b. Polarity  
c. Lot No.

#### • No. 2 (FM80)



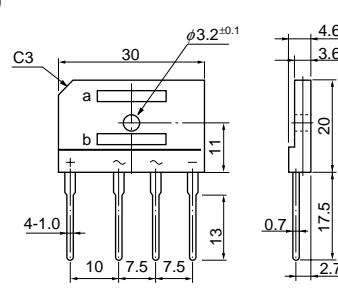
a. Part No.  
b. Polarity  
c. Lot No.

#### • No. 3 (RBV-40)



a. Part No.  
b. Lot No.

#### • No. 4 (RBV-60)



a. Part No.  
b. Lot No.

(unit: mm)

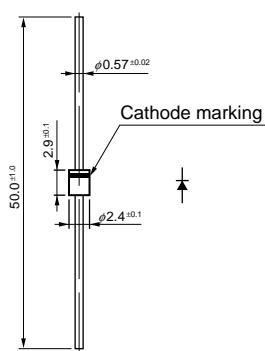
## 4-2-1 1 Chip

Part No.	V <sub>RM</sub> (V)	I <sub>F</sub> (A)	I <sub>FSM</sub> (A)	t <sub>rr(1)</sub> (μS)	t <sub>rr(2)</sub> (μS)	Package	Fig. No.
EU 2YX	100	1.2	25	0.2	0.08	Axial(E1)	3
RU 2YX		1.5	30	0.2	0.08	Axial(R1)	4
RU 3YX		2.0	50	0.2	0.08	Axial(R2)	5
RU 4Y		3.5	70	0.4	0.18	Axial(R4)	7
RU 30Y		3.5	100	0.4	0.18	Axial(R3)	6
RU 4YX		4.0	100	0.4	0.18	Axial(R4)	7
FMU-G2YXS		10.0	100	0.2	0.08	TO-220F-2Pin	8
EU01Z		0.25	15	0.4	0.18	Axial(E0)	2
EU 1Z		0.25	15	0.4	0.18	Axial(E1)	3
AU01Z		0.5	15	0.4	0.18	Axial(A0)	1
RF 1Z	200	1.0	15	0.4	0.18	Axial(R1)	4
AS01Z		0.6	20	1.5	0.6	Axial(A0)	1
EH 1Z		0.6	30	4.0	1.3	Axial(E1)	3
RH 1Z		0.6	35	4.0	1.3	Axial(R1)	4
ES 1Z		0.7	30	1.5	0.6	Axial(E1)	3
ES01Z		0.7	30	1.5	0.6	Axial(E0)	2
AU02Z		0.8	25	0.4	0.18	Axial(A0)	1
EU02Z		0.8	15	0.4	0.18	Axial(E0)	2
EU 2Z		1.0	15	0.4	0.18	Axial(E1)	3
RU 2Z		1.0	20	0.4	0.18	Axial(R1)	4
RU 4Z	400	3.5	70	0.4	0.18	Axial(R4)	7
RU 30Z		3.5	80	0.4	0.18	Axial(R3)	6
EU01		0.25	15	0.4	0.18	Axial(E0)	2
EU 1		0.25	15	0.4	0.18	Axial(E1)	3
RU 1		0.25	15	0.4	0.18	Axial(R1)	4
AU01		0.5	15	0.4	0.18	Axial(A0)	1
RF 1		0.6	15	0.4	0.18	Axial(R1)	4
AS01		0.6	20	1.5	0.6	Axial(A0)	1
EH 1		0.6	30	4.0	1.3	Axial(E1)	3
RH 1		0.6	35	4.0	1.3	Axial(R1)	4
ES01	400	0.7	30	1.5	0.6	Axial(E0)	2
ES 1		0.7	30	1.5	0.6	Axial(E1)	3
AU02		0.8	25	0.4	0.18	Axial(A0)	1
EU02		1.0	15	0.4	0.18	Axial(E0)	2
EU 2		1.0	15	0.4	0.18	Axial(E1)	3
RU 2M		1.1	20	0.4	0.18	Axial(R1)	4
RU 3		1.5	20	0.4	0.18	Axial(R2)	5
RU 3M		1.5	50	0.4	0.18		
RU 30		2.0	200	0.4	0.18	Axial(R3)	6
RU 4		3.0	50	0.4	0.18	Axial(R4)	7
RU 31	600	3.0	150	0.4	0.18	Axial(R3)	6
RU 4M		3.5	70	0.4	0.18	Axial(R4)	7
EU01A		0.25	15	0.4	0.18	Axial(E0)	2
EU 1A		0.25	15	0.4	0.18	Axial(E1)	3
RU 1A		0.25	15	0.4	0.18	Axial(R1)	4
AU01A		0.5	15	0.4	0.18	Axial(A0)	1
RF 1A		0.6	15	0.4	0.18	Axial(R1)	4
AS01A		0.6	20	1.5	0.6	Axial(A0)	1
EH 1A		0.6	30	4.0	1.3	Axial(E1)	3
RH 1A		0.6	35	4.0	1.3	Axial(R1)	4
ES01A		0.7	30	1.5	0.6	Axial(E0)	2
ES 1A		0.7	30	1.5	0.6	Axial(E1)	3

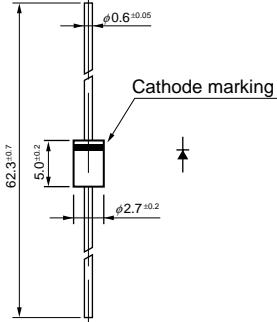
Part No.	V <sub>RM</sub> (V)	I <sub>F</sub> (A)	I <sub>FSM</sub> (A)	trr① : I <sub>R</sub> =I <sub>F</sub>		90% Recovery Point	
				trr② : I <sub>R</sub> =2×I <sub>F</sub>	(μS)	75% Recovery Point	
RS 1A	600	0.7	30	1.5	0.6	Axial(R1)	4
AU02A		0.8	25	0.4	0.18	Axial(A0)	1
EU02A		1.0	15	0.4	0.18	Axial(E0)	2
EU 2A		1.0	15	0.4	0.18	Axial(E1)	3
RU 2		2.0	0.4	0.18			
RU 2AM		1.1	20	0.4	0.18	Axial(R1)	4
RU 20A		2.0	0.4	0.18			
RU 3A		1.5	20	0.4	0.18	Axial(R2)	5
RU 3AM		2.0	0.4	0.18			
RU 30A		2.0	200	0.4	0.18	Axial(R3)	6
RU 4A	800	3.0	50	0.4	0.18	Axial(R4)	7
RU 31A		3.5	150	0.4	0.18	Axial(R3)	6
RU 4AM		3.5	70	0.4	0.18	Axial(R4)	7
FMU-G16S		5.0	30	0.4	0.18	TO-220F2Pin	8
FMU-G26S		10.0	40	0.4	0.18		
RU 1B	1000	0.25	15	0.4	0.18	Axial(R1)	4
RF 1B		0.6	15	0.4	0.18		
RH 1B		3.5	4.0	1.3		Axial(R1)	4
RS 1B		0.7	30	1.5	0.6		
RU 2B		1.0	20	0.4	0.18	Axial(R2)	5
RU 3B		1.1	20	0.4	0.18		
RU 4B		3.0	50	0.4	0.18	Axial(R4)	7
RU 1C		0.2	15	0.4	0.18	Axial(R1)	4
RH 1C		0.6	35	4.0	1.3		
RU 2C		0.8	20	0.4	0.18	Axial(R2)	5
RU 3C	1500	1.5	20	0.4	0.18		
RU 4C		2.5	50	0.4	0.18	Axial(R4)	7
RH 2D		1.0	60	4.0	1.3	Axial(R2)	5
RU 4D		1.5	50	0.4	0.18	Axial(R4)	7
RU 4DS		2.5	50	0.4	0.18	Axial(R4)	7
ES01F		0.5	20	1.5	0.6	Axial(E0)	2
ES 1F		0.5	20	1.5	0.6	Axial(E1)	3
RH 10F		0.8	60	4.0	1.3	Axial(R1)	4
RH 2F		1.0	60	4.0	1.3	Axial(R2)	5
RP 3F		2.0	50	0.7	0.3	Axial(R3)	6
RS 3FS	10.0	2.0	50	2.0	0.8	Axial(R3)	6
RH 4FS		2.5	50	1.0	0.4	Axial(R4)	7
RH 3F		2.5	50	4.0	1.3	Axial(R3)	6
RH 4F		2.5	50	4.0	1.3	Axial(R4)	7
FMQ-G1FS		5.0	50	0.7	0.3	TO-220F-2Pin	8
FMQ-G2FS		5.0	50	0.5	0.2	TO-220F-2Pin	
FMQ-G2FMS		5.0	50	0.5	0.25	TO-220F-2Pin	
FMQ-G5FMS		5.0	50	0.5	0.2	TO-3PF-2Pin	9
FMU-G2FS		5.0	50	0.6	0.25	TO-220F-2Pin	8
FMQ-G2FLS		5.0	50	1.2	0.4	TO-220F-2Pin	
FMV-G5FS		5.0	50	2.0	0.8	TO-3PF2Pin	9
RH 3G	1600	2.5	50	4.0	1.3	Axial(R3)	6
FMQ-G5GS	1700	10.0	50	0.5	0.2	TO-3PF-2Pin	9
FMP-G5HS	8.0	50	1.0	0.4	TO-3PF-2Pin		
FMR-G5HS	10.0	50	1.8	0.7	TO-3PF2Pin		
RC 2	2000	0.2	20	4.0	1.3	Axial(R1)	4

### External Dimensions

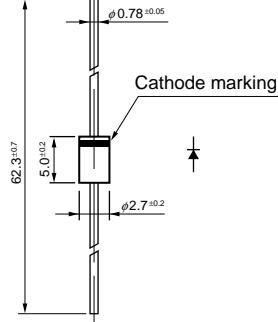
• No. 1 Axial (A0)



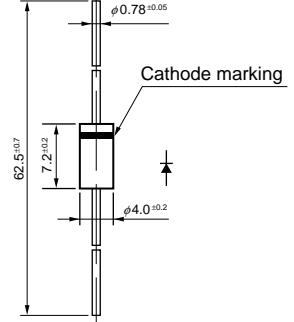
• No. 2 Axial (E0)



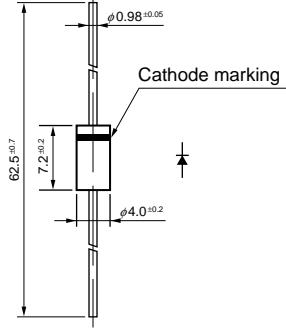
• No. 3 Axial (E1)



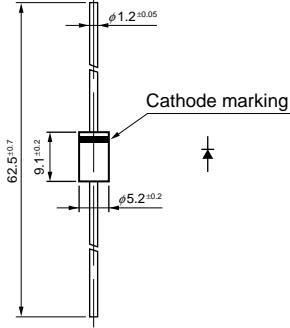
• No. 4 Axial (R1)



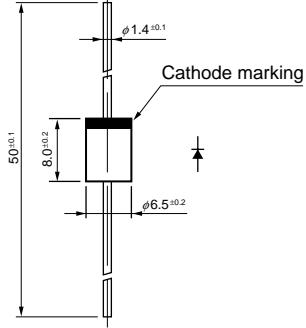
• No. 5 Axial (R2)



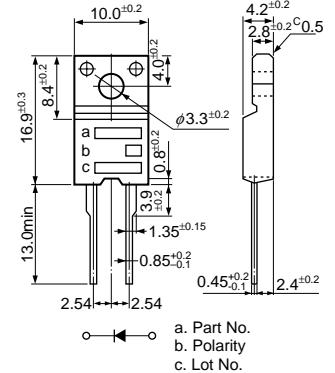
• No. 6 Axial (R3)



• No. 7 Axial (R4)

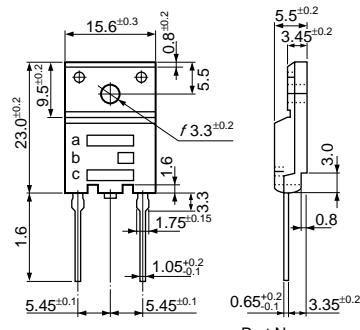


• No. 8 (TO-220F-2 Pin)



a. Part No.  
b. Polarity  
c. Lot No.

• No. 9 (TO-3PF-2 Pin)



a. Part No.  
b. Polarity  
c. Lot No.

(unit: mm)

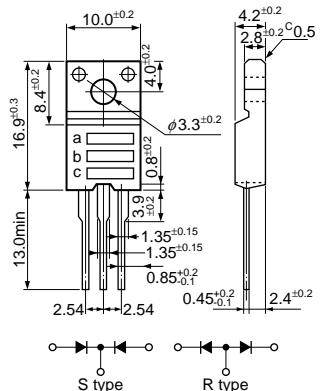
**4-2-2 2 Chip**

trr① :  $I_R = I_F$       90% Recovery Point  
 trr② :  $I_R = 2 \times I_F$       75% Recovery Point

Part No.	V <sub>RM</sub> (V)	I <sub>F</sub> (A)	I <sub>FSM</sub> (A)	t <sub>rr(1)</sub> (μS)	t <sub>rr(2)</sub> (μS)	Package	Fig. No.	
FMU-21S, R	100	10.0	40	0.4	0.18	TO-220F	1	
FMU-12S, R		5.0	30	0.4	0.18	TO-220F		
FMU-22S, R		200	10.0	40	0.4			
FMU-32S, R		20.0	80	0.4	0.18	FM80	2	
FMU-14S, R	400	5.0	30	0.4	0.18	TO-220F	1	
FMU-24S, R		10.0	40	0.4	0.18			
FMU-34S, R		20.0	80	0.4	0.18	FM80	2	
FMU-16S, R	600	5.0	30	0.4	0.18	TO-220F	1	
FMU-26S, R		10.0	40	0.4	0.18			
FMU-36S, R		20.0	80	0.4	0.18	FM80	2	

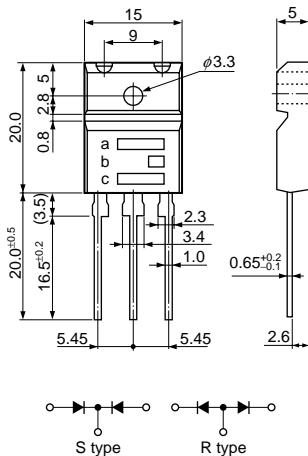
## External Dimensions

- No. 1 (TO-220F)



- a. Part No.
- b. Polarity
- c. Lot No.

- No. 2 (FM80)



- a. Part No.
- b. Polarity
- c. Lot No.

(unit: mm)



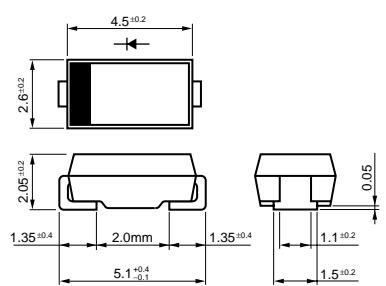
## 4-3-1 1 Chip

Part No.	V <sub>RM</sub> (V)	I <sub>F</sub> (A)	I <sub>FSM</sub> (A)	t <sub>rr(1)</sub> (nS)	t <sub>rr(2)</sub> (nS)	Package	Fig. No.
AG01Y	70	1.0	25	100	50	Axial(A0)	3
EG01Y			30	100	50	Axial(E0)	4
EG 1Y		1.1	30	100	50	Axial(E1)	5
RG 10Y		1.5	50	100	50	Axial(R1)	6
RG 2Y			50	100	50	Axial(R2)	7
RG 4Y		3.5	100	100	50	Axial(R4)	9
AG01Z		0.7	15	100	50	Axial(A0)	3
EG01Z		0.8	15	100	50	Axial(E0)	4
EG 1Z			15	100	50	Axial(E1)	5
SFPL-52	200	0.9	25	50	35	Surface mount (SFP)	1
SFPL-62		1.0	25	50	35	Axial(A0)	3
AL01Z			25	50	35	Axial(E0)	4
EN 01Z		1.2	25	100	50	Axial(E1)	5
RG 10Z			50	100	50	Axial(R1)	6
RG 2Z			50	100	50	Axial(R2)	7
EL 1Z		1.5	20	50	35	Axial(E1)	5
EL02Z			25	40	30	Axial(E0)	4
SFPX-62			30	30	25	Surface mount (SFP)	1
RN 1Z			60	100	50	Axial(R1)	6
RL 10Z	200	2.0	30	50	35	Axial(R1)	
RL 2Z			30	50	35	Axial(R2)	7
RN 2Z		3.0	70	100	50	Axial(R3)	8
SPX-G32S			50	30	25	Surface mount (D pack)	2
RX 3Z		3.5	80	30	25	Axial(R4)	9
RN 3Z			80	100	50	Axial(R3)	8
RG 4Z		5.0	80	50	35	Axial(R4)	9
RL 3Z			80	50	35	Axial(R3)	8
RL 4Z		10.0	120	100	50	Axial(R4)	9
RN 4Z			65	30	25	TO-220F-2Pin	10
FMX-G12S	300	5.0	65	40	30		
FML-G12S			65	150	70		
FMP-G12S		10.0	100	100	50		
FMN-G12S			150	30	25		
FMX-G22S		5.0	150	40	30		
FML-G22S			70	30	25		
SFPX-63		2.0	30	30	25	Surface mount (SFP)	1
FML-G13S		5.0	70	50	35	TO-220F-2Pin	10
AG01	400	0.7	15	100	50	Axial(A0)	3
EG01		0.8	15	100	50	Axial(E0)	4
EG 1			15	100	50	Axial(E1)	5
RG 10		1.2	50	100	50	Axial(R1)	6
RG 2			50	100	50	Axial(R2)	7
EL 1		1.5	25	50	35	Axial(E1)	5
RL 2			20	40	35	Axial(R2)	7
RG 4		3.0	80	100	50	Axial(R4)	9
RL 3			80	50	35	Axial(R3)	8
FMX-G14S		5.0	70	30	25	TO-220F-2Pin	10
FML-G14S			70	50	35		
FMN-G14S			70	100	50		

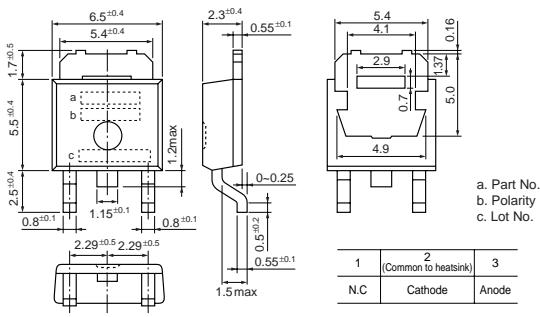
Part No.	V <sub>RM</sub> (V)	I <sub>F</sub> (A)	I <sub>FSM</sub> (A)	t <sub>rr(1)</sub> (nS)	t <sub>rr(2)</sub> (nS)	90% Recovery Point	
						trr① : I <sub>R</sub> =I <sub>F</sub>	trr② : I <sub>R</sub> =2×I <sub>F</sub>
EG01A	600	0.5	10	100	50	Axial(E0)	4
AG01A			15	100	50	Axial(A0)	3
EG 1A		0.6	10	100	50	Axial(E1)	5
RG 10A		1.0	50	100	50	Axial(R1)	6
RG 2A			50	100	50	Axial(R2)	7
RL 2A		1.2	30	50	35		
RG 4A		2.0	50	100	50	Axial(R4)	9
RL 3A			60	50	35	Axial(R3)	8
RL 4A		3.0	80	50	35	Axial(R4)	9
FMG-G26S		4.0	50	100	50	TO-220F-2Pin	10
FMX-G16S			50	30	25		
FML-G16S		5.0	50	50	35		
FMN-G16S			50	100	50		
FMG-G36S		8.0	80	100	50	FM80-2Pin	11
FMX-G26S		10.0	100	30	25	TO-220F-2Pin	10
FMD-G26S			100	50	30		
FML-G26S		100	65	35			
FMC-G28S	800	3.0	50	70	35	TO-220F-2Pin	
FMC-G28SL		5.0	60	70	35	TO-220F-2Pin	
AP01C	1000	0.2	5	200	80	Axial(A0)	3
EP01C		0.2	5	200	80	Axial(E0)	4
RU 1P		0.4	10	100	50	Axial(R1)	6
EG01C		0.5	10	100	50	Axial(E0)	4
RG 1C		0.7	10	100	50	Axial(R1)	6
RG 4C		2.0	60	100	50	Axial(R4)	9
FMG-G2CS		3.0	30	100	50	TO-220F-2Pin	10
FMG-G3CS		5.0	60	150	70	FM80-2Pin	11
RP 1H		0.1	5	200	80	Axial(R1)	6

### External Dimensions

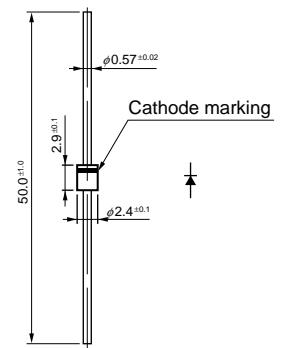
• No. 1 Surface Mount (SFP)



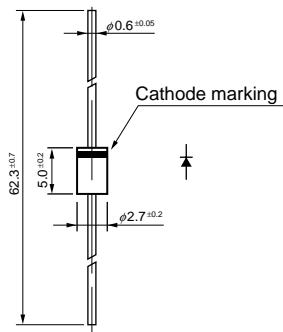
• No. 2 Surface Mount (D pack)



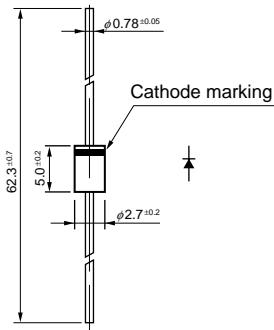
• No. 3 Axial (A0)



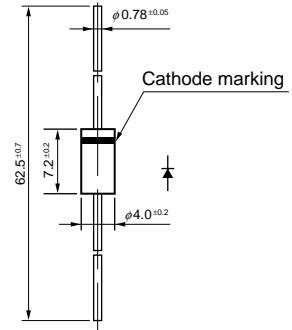
• No. 4 Axial (E0)



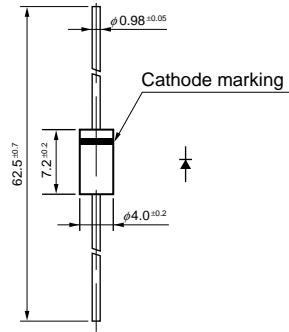
• No. 5 Axial (E1)



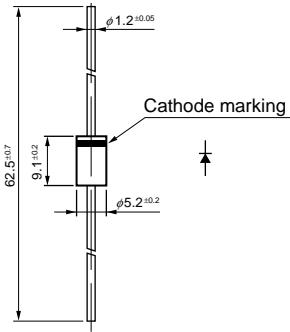
• No. 6 Axial (R1)



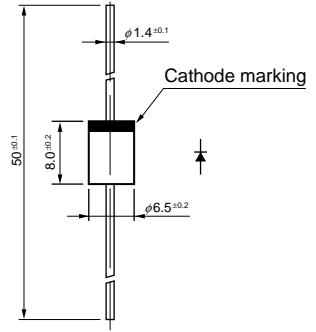
• No. 7 Axial (R2)



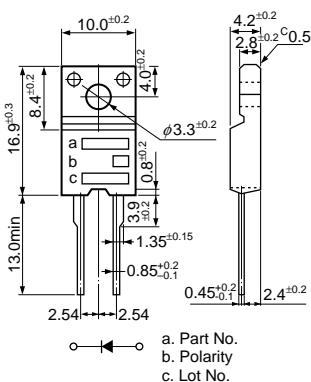
• No. 8 Axial (R3)



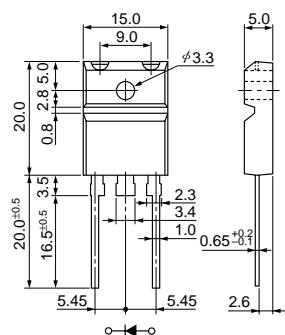
• No. 9 Axial (R4)



• No. 10 (TO-220F-2 Pin)



• No. 11 (FM80-2 Pin)



(unit: mm)

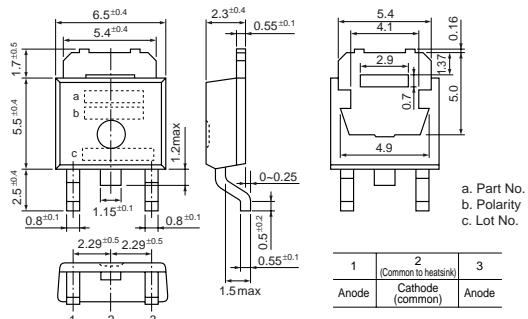
**4-3-2 2 Chip**

Part No.	V <sub>RM</sub> (V)	I <sub>F</sub> (A)	I <sub>FSM</sub> (A)	t <sub>rr①</sub> (nS)	t <sub>rr②</sub> (nS)	Package	Fig. No.
FMX-12S	200	5.0	35	30	25	TO-220F	2
FML-12S			35	40	30		
FMG-12S, R			35	100	50		
SPX-62S		6.0	80	30	25	Surface mount (D pack)	1
FMX-22S			65	30	25		
FML-22S		10.0	65	40	30	TO-220F	2
FMG-22S, R			65	100	50		
FMX-22SL			100	30	25		
FMX-32S		20.0	150	30	25	FM80	3
FML-32S			150	40	30		
FMG-32S, R			150	100	50		
FML-13S	300	5.0	40	50	35	TO-220F	2
FMG-13S, R			35	100	50		
FMX-23S		10.0	65	30	25		
FMG-23S, R			65	100	50		
FML-23S			70	50	35		
FMX-33S		20.0	100	30	25	FM80	3
FML-33S			100	50	35		
FMG-33S, R			150	100	50		

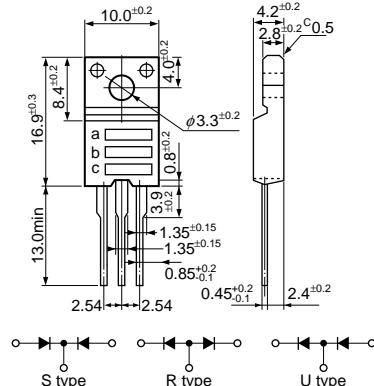
		trr① : $I_{Rr} = I_F$		90% Recovery Point			
		trr② : $I_{Rr} = 2 \times I_F$		75% Recovery Point			
Part No.	V <sub>RM</sub> (V)	I <sub>F</sub> (A)	I <sub>FSM</sub> (A)	trr① (nS)	trr② (nS)	Package	Fig. No.
FMG-14S, R	400	5.0	35	100	50	TO-220F	2
FML-14S			40	50	35		
FMG-24S, R		8.0	65	100	50		
FML-24S		10.0	70	50	35		
FMG-34S, R		16.0	100	100	50	FM80	3
FML-34S		20.0	100	50	35		
FMC-26U	600	3.0	50	70	35	TO-220F	2
FMG-26S, R		6.0	50	100	50		
FMG-36S, R		15.0	80	100	50	FM80	3
FML-36S		20.0	100	65	35		
FMC-28U	800	3.0	50	70	35	TO-220F	2
FMC-26UA	1200	3.0	50	70	35	TO-220F-2Pin	4
FMC-28UA	1600	3.0	50	70	35	TO-220F-2Pin	

## External Dimensions

- No. 1 Surface Mount (D pack)

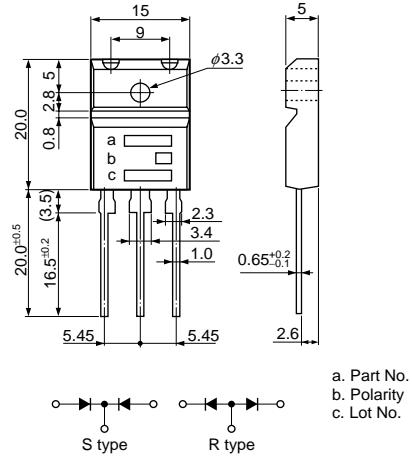


- No. 2 (TO-220F)

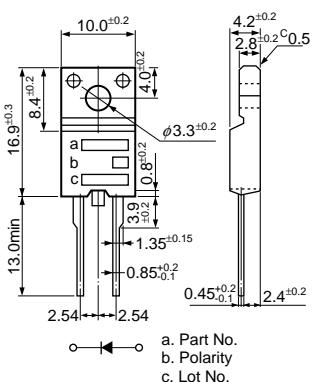


- a. Part No.
- b. Polarity
- c. Lot No.

- No. 3 (FM80)



- No. 4 (TO-220F-2 Pin)



- a. Part No.
- b. Polarity
- c. Lot No.

(unit: mm)

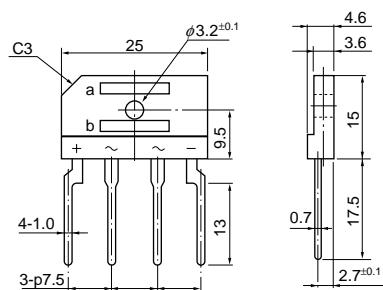
### 4-3-3 Bridge

trr① :  $I_R = I_F$       90% Recovery Point  
 trr② :  $I_R = 2 \times I_F$       75% Recovery Point

Part No.	$V_{RM}$ (V)	$I_F$ (A)	$I_{FSM}$ (A)	trr① (nS)	trr② (nS)	Package	Fig. No.
RBV-402L	200	4.0	80	40	30	RBV-40	1
RBV-602L		6.0	100	50	35	RBV-60	2

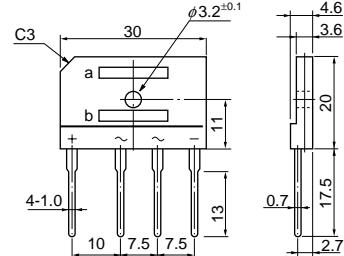
### External Dimensions

• No. 1 (RBV-40)



a. Part No.  
b. Lot No.

• No. 2 (RBV-60)



a. Part No.  
b. Lot No.

(unit: mm)

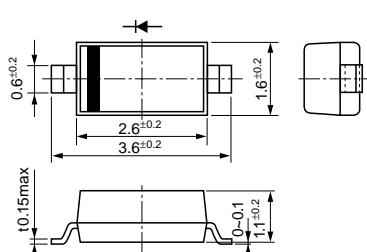
## 4-4-1 1 Chip

Part No.	V <sub>RM</sub> (V)	I <sub>o</sub> (A)	V <sub>F</sub> (V)	I <sub>R</sub> (mA)	Package	Fig. No.
SFPA-53	30	1.0	0.36	1.5	Surface mount (SFP)	2
EA 03			0.36	1.5	Axial(E0)	5
MI2A3			0.39	2.0	Surface mount (Compact)	1
SFPJ-53			0.45	1.0	Surface mount (SFP)	2
MI1A3			0.47	1.0	Surface mount (Compact)	1
AK 03			0.55	1.0	Axial(A0)	4
EK 03			0.55	5.0	Axial(E0)	5
EK 13		1.5	0.55	5.0	Axial(E1)	6
RK 13		1.7	0.55	5.0	Axial(R1)	7
SFPA-63		2.0	0.36	3.0	Surface mount (SFP)	2
RA 13			0.36	3.0	Axial(R1)	7
SFPJ-63			0.45	2.0	Surface mount (SFP)	2
SFPE-63			0.55	0.2		
RK 33			2.5	0.55	5.0	Axial(R2)
SFPA-73			0.36	4.5	Surface mount (SFP)	2
SFPJ-73			0.45	3.0		
RJ 43		3.0	0.45	3.0	Axial(R4)	9
RK 43			0.55	5.0	Surface mount (D pack)	3
SPJ-G53S			5.0	0.45		
SFPB-54	40	1.0	0.55	1.0	Surface mount (SFP)	2
AK 04			0.55	1.0	Axial(A0)	4
EK 04			0.55	5.0	Axial(E0)	5
AW 04			0.58	5.0	Axial(A0)	4
SFPB-64		1.5	0.55	5.0	Surface mount (SFP)	2
EK 14			0.55	5.0	Axial(E1)	6
RK 14		1.7	0.55	5.0	Axial(R1)	7
SFPB-74		2.0	0.50	5.0	Surface mount (SFP)	2
SFPE-64			0.60	0.2		
RK 34		2.5	0.55	5.0	Axial(R2)	8
SPB-G34S			0.55	3.5	Surface mount (D pack)	3
RK 44			0.55	5.0	Axial(R4)	9
FMB-G14		3.0	0.60	5.0	TO-220F-2Pin	10
SPB-G54S			0.55	5.0	Surface mount (D pack)	3
FMB-G14L		5.0	0.55	5.0	TO-220F-2Pin	10
FMB-G24H			10	0.55		

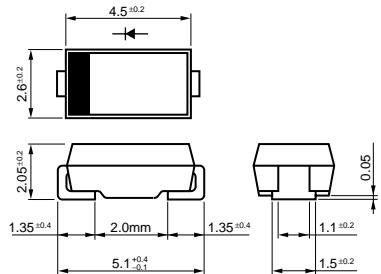
Part No.	V <sub>RM</sub> (V)	I <sub>o</sub> (A)	V <sub>F</sub> (V)	I <sub>R</sub> (mA)	Package	Fig. No.
SFPB-56	60	0.7	0.62	1.0	Surface mount (SFP)	2
AK 06			0.62	1.0	Axial(A0)	4
EK 06			0.62	1.0	Axial(E0)	5
EK 16		1.5	0.62	1.0	Axial(E1)	6
RK 16			0.62	1.0	Axial(R1)	7
SFPB-76		2.0	0.62	2.0	Surface mount (SFP)	2
RK 36			0.62	2.0	Axial(R2)	8
SFPB-66			0.69	1.0	Surface mount (SFP)	2
RK 46		3.5	0.62	3.0	Axial(R4)	9
FMB-G16L			5.0	0.62	5.0	TO-220F-2Pin
SPB-G56S			6.0	0.70	Surface mount (D pack)	3
SFPB-59	90	0.7	0.81	1.0	Surface mount (SFP)	2
AK 09			0.81	1.0	Axial(A0)	4
EK 09			0.81	1.0	Axial(E0)	5
SFPB-69		1.5	0.81	2.0	Surface mount (SFP)	2
EK 19			0.81	2.0	Axial(E1)	6
RK 19			0.81	2.0	Axial(R1)	7
RK 39		2.0	0.81	3.0	Axial(R2)	8
RK 49			3.5	0.81	5.0	Axial(R4)
FMB-G19L			4.0	0.81	5.0	TO-220F-2Pin

## External Dimensions

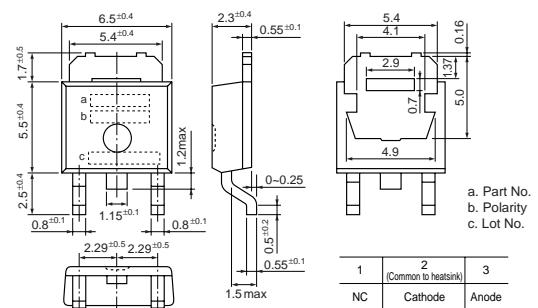
- No. 1 Surface Mount (SOT23)



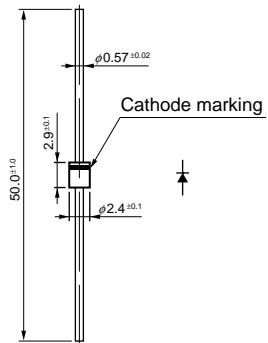
- No. 2 Surface Mount (SFP)



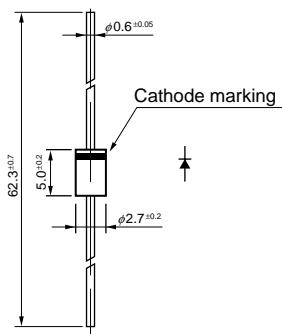
- No. 3 Surface Mount (D pack)



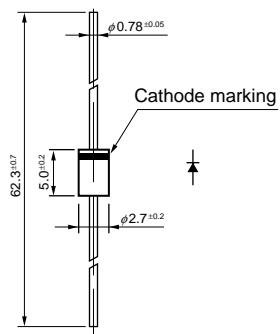
- No. 4 Axial (A0)



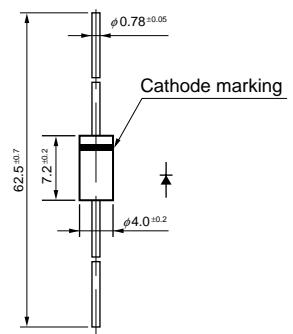
- No. 5 Axial (E0)



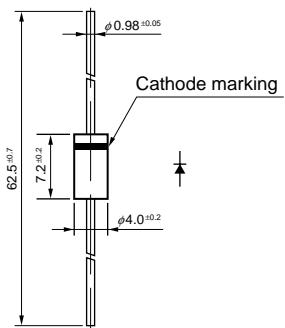
- No. 6 Axial (E1)



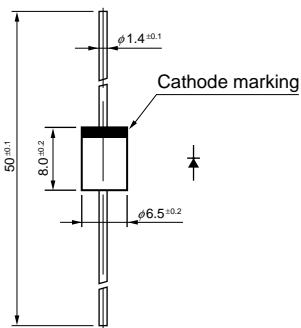
- No. 7 Axial (R1)



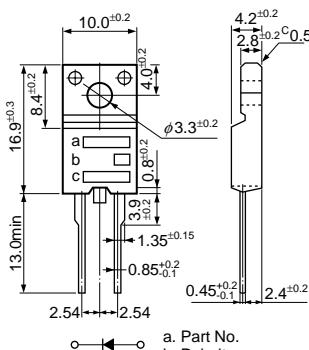
- No. 8 Axial (R2)



- No. 9 Axial (R4)



- No. 10 (TO-220F-2 Pin)



(unit: mm)

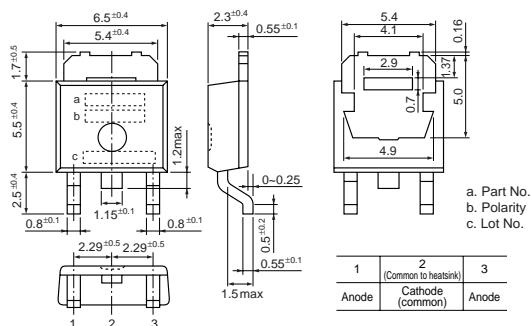
## 4-4-2 2 Chip

Part No.	V <sub>RM</sub> (V)	I <sub>o</sub> (A)	V <sub>F</sub> (V)	I <sub>R</sub> (mA)	Package	Fig. No.
SPJ-63S	30	6.0	0.45	3.0	Surface mount (D pack)	1
FMJ-23L		10	0.45	5.0	TO-220F	2
FMJ-2203		20	0.45	10		
FMJ-2303		30	0.45	15		
FMB-24	40	4.0	0.55	5.0	TO-220F	
SPB-64S		6.0	0.55	3.5	Surface mount (D pack)	1
FMB-24M			0.55	5.0	TO-220F	2
FMW-24L		10	0.55	5.0	TO-220F	
FMB-24L			0.55	5.0		
FME-24L			0.60	0.5		
FMB-34S	15	12	0.58	5.0	FM80	4
FMW-24H		15	0.55	7.5	TO-220F	2
FMB-24H			0.55	7.5		
FMB-34		15	0.55	10	FM80	4
MPE-24H			0.60	0.75	TO-220S	3
FME-24H		15	0.60	0.75	TO-220F	
FMB-2204			20	0.55	10	2
FMB-2304		30	0.55	15	TO-220F	
FMB-34M		30	0.55	20		4

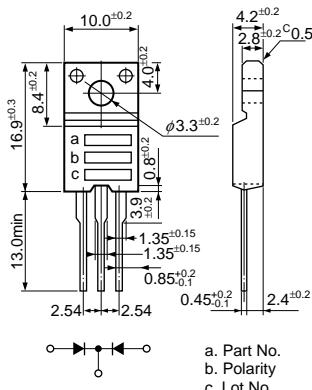
Part No.	V <sub>RM</sub> (V)	I <sub>o</sub> (A)	V <sub>F</sub> (V)	I <sub>R</sub> (mA)	Package	Fig. No.
FMB-26	60	4.0	0.62	1.0	TO-220F	2
SPB-66S		6.0	0.65	1.0	Surface mount (D pack)	1
FMB-26L		10	0.62	2.5	TO-220F	2
FMB-36		15	0.62	5.0	FM80	4
FMB-2206	90	20	0.7	8.0	TO-220F	2
FMB-36M		30	0.62	10.0	FM80	4
FMB-2306			0.7	8.0	TO-220F	
FMB-29	100	4.0	0.81	3.0	TO-220F	2
FMB-29L		8.0	0.81	5.0		
FMB-39		15	0.81	10	FM80	4
FMB-39M	100	20	0.81	15	FM80	
MPE-29G		20	0.85	1.0	TO-220S	3
FME-220A	100	20	0.85	1.0	TO-220F	2
FME-230A		30	0.85	1.5	TO-220F	

## External Dimensions

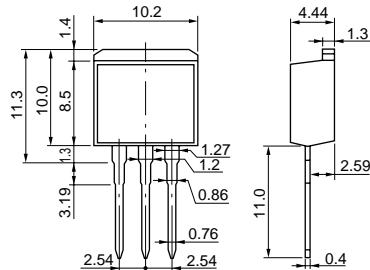
## • No. 1 Surface Mount (D pack)



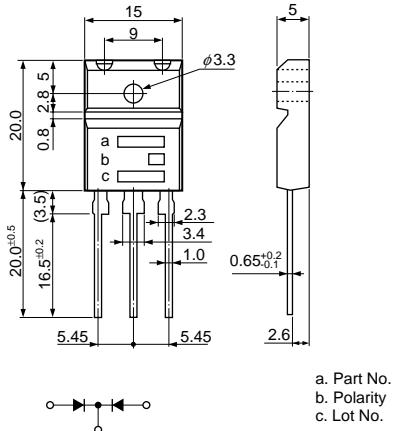
## • No. 2 (TO-220F)



## • No. 3 (TO-220S)



## • No. 4 (FM80)



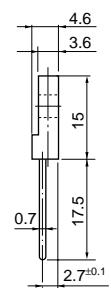
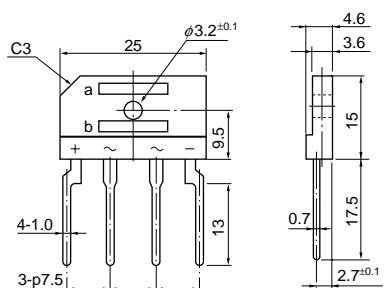
(unit: mm)

### 4-4-3 Bridge

Part No.	$V_{RM}$ (V)	$I_o$ (A)	$V_F$ (V)	$I_R$ (mA)	Package	Fig. No.
RBV-406B	60	4.0	0.62	2.0	RBV-40	1

#### External Dimensions

- No. 1 (RBV-40)



a. Part No.  
b. Lot No.

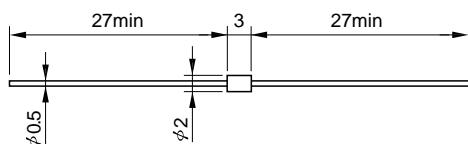
(unit: mm)

Division	Part No.	VRM (kV)	IF(AV) (mA)	VF(max) (V)	trr ( $\mu$ S) IF=IRP		Fig. No.
					Ta=25°C	Ta=100°C	
General purpose	SHV-02	2	2	16	0.18	-	1
	SHV-03S	3	2	16	0.18	-	
	SHV-03	3	2	16	0.18	-	2
For general FBT	SHV-10	10	2*	40	0.18	-	
	SHV-12	12	2*	45	0.18	-	3
	SHV-14	14	2*	55	0.18	-	
	SHV-16	16	2*	60	0.18	-	
	SHV-20	20	2*	75	0.18	-	4
	SHV-24	24	2*	75	0.18	-	
For high-frequency multi-layer FBT	SHV-06EN	6	2*	26	0.15	0.2	
	SHV-08EN	8	2*	30	0.15	0.2	5
	SHV-10EN	10	2*	38	0.15	0.2	
	SHV-12EN	12	2*	45	0.15	0.2	6
For ultra-high-frequency multi-layer FBT	SHV-08DN	8	2*	30	0.15	0.2	5
	SHV-10DN	10	2*	38	0.15	0.2	
	SHV-12DN	12	2*	45	0.15	0.2	6
For general type microwave oven	HVR-1X-40B	9	350	9	-	-	
For inverter-type microwave oven	UX-F5B	8	350	14	0.15	-	7
For automotive ignition coil	SHV-05JS	2.5	30	5	Vz=2.6~5.0kV		2
	SHV-06JN	3	30	6	Vz=3.2~6.0kV		5
	SHV-08J	4	30	8	Vz=4.5~8.0kV		8
	SHV-30J	15	30	30	Vz=16.0~30.0kV		6

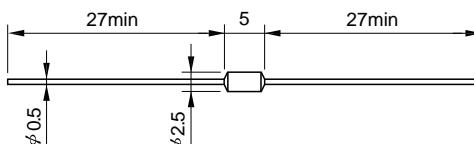
\*FBT High voltage Rectifier Capacitive Load, Tc≤100°C

### External Dimensions

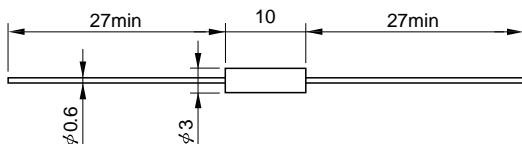
• No. 1



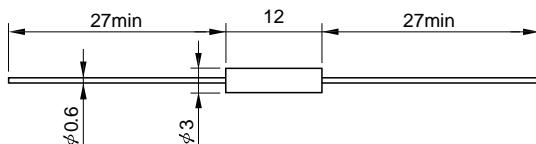
• No. 2



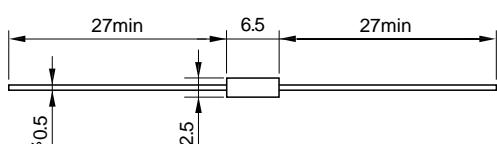
• No. 3



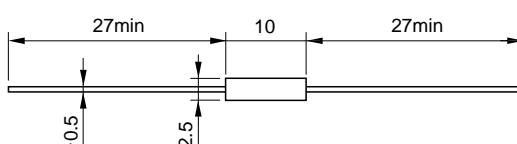
• No. 4



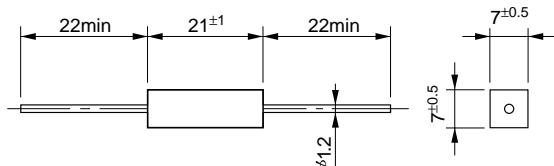
• No. 5



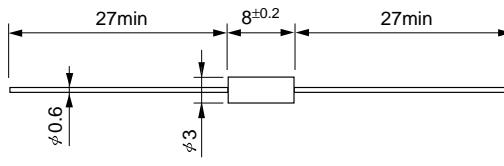
• No. 6



• No. 7



• No. 8



(unit: mm)

## 4-6-1 Damper Diodes

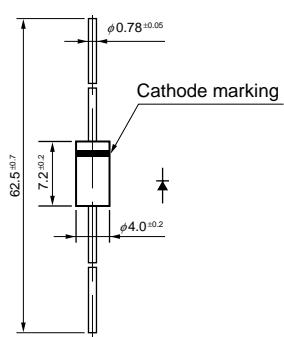
trr① :  $I_R=I_F$   
 trr② :  $I_R=2 \times I_F$

90% Recovery Point  
 75% Recovery Point

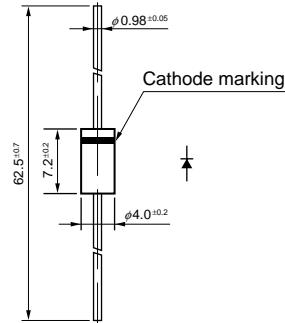
Application	Part No.	V <sub>RM</sub> (V)	I <sub>F</sub> (A)	trr① (μS)	trr② (μS)	Package	Fig. No.
For TV	RH 2D	1300	1.0	4.0	1.3	Axial(R2)	2
	RH 10F		0.8	4.0	1.3	Axial(R1)	1
	RH 2F		1.0	4.0	1.3	Axial(R2)	2
	RS 3FS		2.0	2.0	0.8	Axial(R3)	3
	RS 4FS		2.5	1.0	0.4	Axial(R4)	4
	RH 3F			4.0	1.3	Axial(R3)	3
	RH 4F			4.0	1.3	Axial(R4)	4
	FMV-G5FS			10.0	2.0	TO-3PF-2Pin	6
	RH 3G	1600	2.5	4.0	1.3	Axial(R3)	3
	FMR-G5HS	1800	10.0	1.8	0.7	TO-3PF-2Pin	6
For CRT Display	RU 4D	1300	1.5	0.4	0.18	Axial(R4)	4
	RU 4DS		2.5	0.4	0.18		4
	RP 3F	1500	2.0	0.7	0.3	Axial(R3)	3
	FMQ-G1FS		5.0	0.7	0.3	TO-220F-2Pin	5
	FMQ-G2FS		0.5	0.2	5		
	FMQ-G2FMS			0.5	0.2	TO-3PF-2Pin	6
	FMQ-G5FMS		10.0	0.5	0.2	TO-220F-2Pin	5
	FMU-G2FS			0.6	0.25		5
	FMQ-G2FLS			1.2	0.4	TO-3PF-2Pin	6
	FMQ-G5GS	1700	10.0	0.5	0.2		6
	FMP-G5HS	1800	8.0	1.0	0.4	Axial(R2)	2
For CRT Display compensation	RG 2A2	1300	0.5	0.1	0.05		2
	RC 3B2	1600	1.0	0.07	0.035	Axial(R3)	3

## External Dimensions

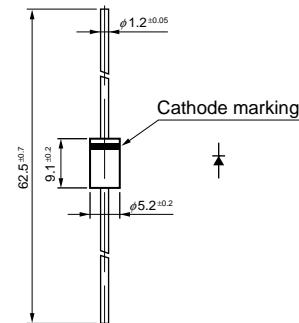
• No. 1 Axial (R1)



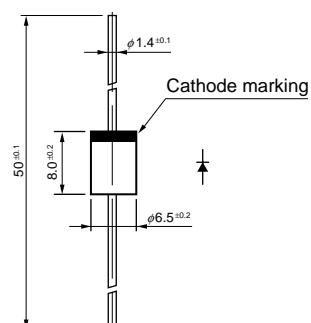
• No. 2 Axial (R2)



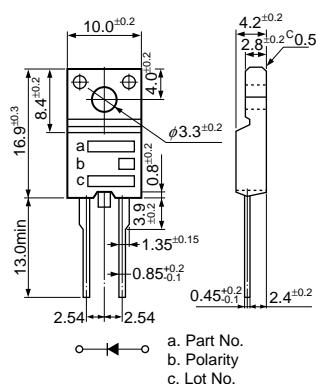
• No. 3 Axial (R3)



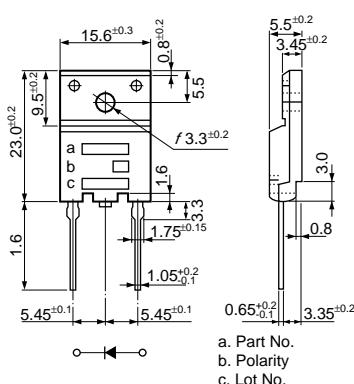
• No. 4 Axial (R4)



• No. 5 (TO-220F-2 Pin)



• No. 6 (TO-3PF-2 Pin)



(unit: mm)

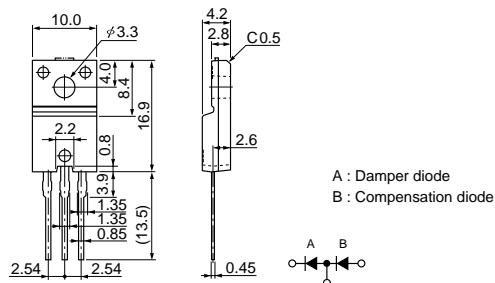
## 4-6-2 DM Damper Diodes

trr① :  $I_R=I_F$  90% Recovery Point  
 trr② :  $I_R=2 \times I_F$  75% Recovery Point

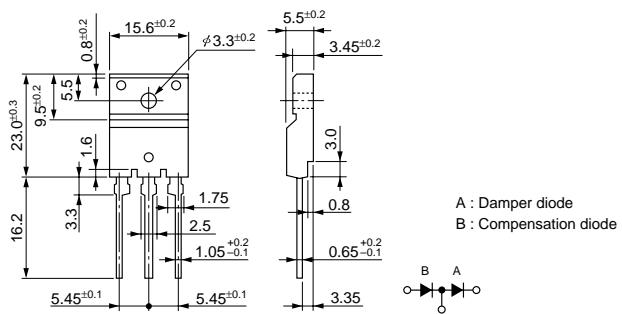
Application	Part No.	$V_{RM}$ (V)	$I_F$ (A)	trr① ( $\mu$ S)	trr② ( $\mu$ S)	Package	Fig. No.	
For TV	FMV-3FU	1500/600	5.0	4.0/0.4	1.3/0.18	TO-3PF	2	
	FMV-3GU	1700/600	5.0	2.0/0.4	0.8/0.18	TO-3PF		
	FMV-3HU	1800/600	5.0	2.0/0.4	0.8/0.18	TO-3PF		
For CRT Display	FMP-3FU	1500/600	5.0	0.7/0.1	0.3/0.05	TO-3PF	1	
	FMP-2FUR			0.7/0.1	0.3/0.05	TO-220F		
	FMQ-2FUR			2.0/0.15	0.8/0.07			
	FMT-2FUR			1.0/0.1	—			
	FMQ-3GU	1700/800	5.0	0.7/0.07	0.3/0.04	TO-3PF	2	

## External Dimensions

## • No. 1 TO-220F (Damper)



## • No. 2 TO-3PF (Damper)

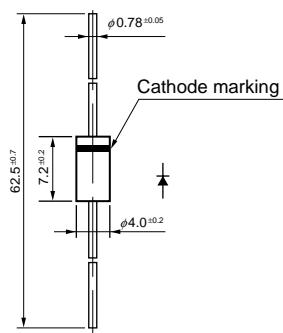


(unit: mm)

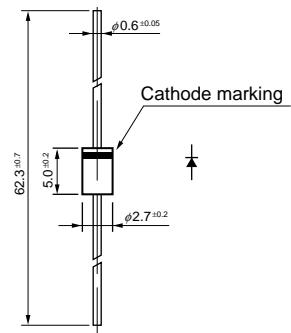
Part No.	V <sub>Z</sub> (V)	V <sub>RDC</sub> (V)	I <sub>TSM</sub> (A)	Package	Fig. No.
RZ1030	27~ 33	20	30	Axial(R1)	1
RZ1040	34~ 40	28	30		
RZ1055	50~ 60	40	30		
RZ1065	60~ 70	50	30		
RZ1100	90~ 110	80	30		
RZ1125	115~ 135	105	30		
RZ1150	140~ 160	125	30	Axial(E0)	2
EZ0150					
RZ1155	150~ 165	138.7	30	Axial(R1)	1
RZ1175	165~ 185	150	30		
RZ1200	185~ 215	180	30		

### External Dimensions

• No. 1 Axial (R1)



• No. 2 Axial (E0)

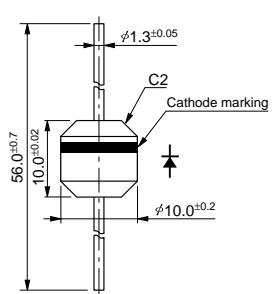


(unit: mm)

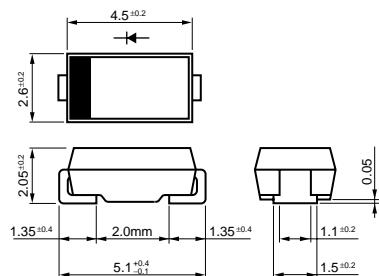
Part No.	Vz (V)	P <sub>R</sub> (W)	V <sub>DC</sub> (V)	I <sub>TSM</sub> (A)	Package	Fig. No.
PZ628	28±3.0	1500	20	65.0	Axial	1
SFPZ-68	28±3.0	50	20	2.0	Surface mount (SFP)	2
SPZ-G36	36±3.6	450	30	11.0	Surface mount (D pack)	3

### External Dimensions

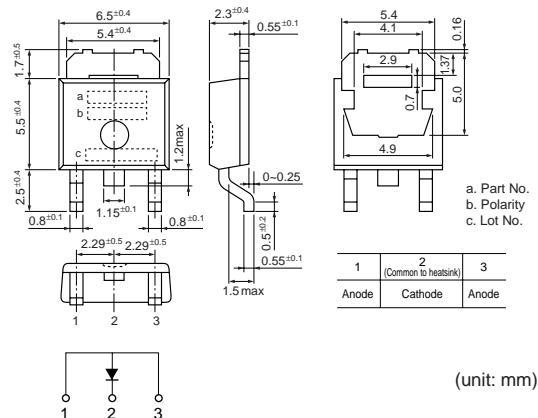
• No. 1 Axial (PZ628)



• No. 2 Surface Mount (SFP)



• No. 3 Surface Mount (D pack)

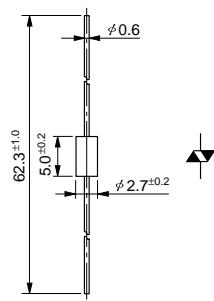


(unit: mm)

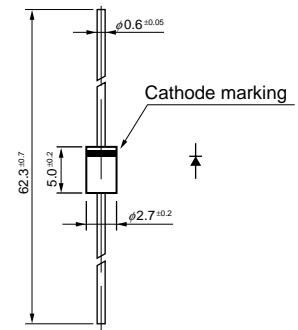
Division	Part No.	$V_F$ (V)	$I_F$ (mA)	$I_{FSM}$ (A)	Package	Fig. No.
Unsymmetrical type	VR-60SS	1.5max	400	15	Axial(E0)	1
	VR-61SS	$2.3 \pm 0.25$	150	7.5		
	SV-2SS	4max	150	-		
	SV-3SS	2max	250	-		
	SV-4SS	$1.8 \pm 0.2$	150	-		
Symmetrical type	SV 02YS	$1.2 \pm 0.2$	200	30	Axial(E0)	2
	SV 03YS	$1.8 \pm 0.2$	150	16		
	SV 04YS	$2.35 \pm 0.25$	100	12		
	SV 05YS	$3.0 \pm 0.3$	80	10		
	SV 06YS	$3.5 \pm 0.35$	70	8		

### External Dimensions

• No. 1 Axial (E0)



• No. 2 Axial (E0)



(unit: mm)



# 5

## LED

<b>5-1 LED Lamps .....</b>	<b>62</b>
5-1-1 Single-color Lamps .....	62
5-1-2 Bicolor Lamps .....	68
<b>5-2 Surface mount LEDs .....</b>	<b>70</b>
5-2-1 Single-color Surface mount .....	70
5-2-2 Bicolor Surface mount .....	70
<b>5-3 Infrared LEDs .....</b>	<b>72</b>

## 5-1-1 Single-color Lamps

### Absolute Maximum Ratings

(Ta=25°C)

Parameter	Unit	Ratings					Conditions
		Gap	GaAsP	GaAlAs	AlGaNp	InGaN	
If	mA	30					
ΔIf	mA/C	-0.45					Above 25°C
Ifp	mA	100		70		f=1kHz, tw≤100μs	
Vr	V	3	4	5			
Top	°C	-30~+85		-25~+85			
Tstg	°C	-30~+100					

Shape	Part No.	Emitting Color	Lens Color	Forward Voltage Vf		Electro-Optical Characteristics (Ta=25°C)				Fig. No.
				If=10mA (V)		Intensity If (mod)		PeakWave length IP (mm)		Fig. No.
				typ	max	typ	typ	(mA)	typ	
SEL1110R		Deep red	Diffused red	2.0	2.5	2.8	5	700	GaP	X
SEL1110W			Diffused white			2.8				X
SEL1110S			Transparent red			4.5				X
SEL1610W		High-intensity red	Diffused white	1.75	2.2	1000	20	660	GaAlAs	X
SEL1610C			Clear			1200				X
SEL1210R		Red	Diffused red	1.9	2.5	26	20	630	GaAsP	X
SEL1210S			Transparent red			75				X
SEL1810D		Amber	Diffused orange	1.9	2.5	18	10	610	GaAsP	X
SEL1810A			Transparent orange			37				X
SEL1910D		Orange	Diffused orange	1.9	2.5	14	10	587	GaAsP	X
SEL1910A			Transparent orange			25				X
SEL1710Y		Yellow	Diffused yellow	2.0	2.5	22	10	570	GaP	X
SEL1710K			Transparent yellow			65				X
SEL1410G		Green	Diffused green	2.0	2.5	32	20	560	GaP	X
SEL1410E			Transparent green			84				X
SEL1510C	Pure green	Clear	2.0	2.5	50	20	555	GaP	X	
SEL1210RM		Red	Diffused red	1.9	2.5	36	20	630	GaAsP	X
SEL1210SM			Transparent red			75				X
SEL1810DM		Amber	Diffused orange	1.9	2.5	18	10	610	GaAsP	X
SEL1810AM			Transparent orange			37				X
SEL1910DM		Orange	Diffused orange	1.9	2.5	19	10	587	GaAsP	X
SEL1910AM			Transparent orange			34				X
SEL1710KM		Yellow	Transparent yellow	2.0	2.5	65	10	570	GaP	X
SEL1410GM		Green	Diffused green	2.0	2.5	30	20	560	GaP	X
SEL1410EM			Transparent green			84				X
SEL1510CM	Pure green	Clear	2.0	2.5	50	20	555	GaP	X	
SELU1210CXM	Ultra-high-intensity red	Clear	2.0	2.5	280	20	635	AlGaNp	X	
SELU1810CXM	Ultra-high-intensity amber	Clear	2.0	2.5	570	20	615	AlGaNp	X	
SELU1D10CXM	Ultra-high-intensity pure green	Clear	3.3	4.0	2000	20	525	InGaN	X	
SELU1E10CXM	Ultra-high-intensity blue	Clear	3.3	4.0	600	20	470	InGaN	X	
SELU1250CM	Ultra-high-intensity red	Clear	2.0	2.5	900	20	635	AlGaNp	O	
SEL1250SM		Red	Transparent red	1.9	2.5	75	20	630	GaAsP	O
SEL1250RM			Diffused red			48				O
SEL1850AM		Amber	Transparent orange	1.9	2.5	90	20	610	GaAsP	O
SEL1850DM			Diffused orange			60				O
SEL1950KM	Orange	Transparent orange	1.9	2.5	96	20	587	GaAsP	O	
SEL1450EKM		Green	Transparent green	2.0	2.5	190	20	560	GaP	O
SEL1450GM-YG			Diffused green			120				O
SEL1550CM	Pure green	Clear	2.0	2.5	72	20	555	GaP	X	
SELU1D50CM	Ultra-high-intensity pure green	Clear	3.3	4.0	6000	20	525	InGaN	X	
SELU1E50CM	Ultra-high-intensity blue	Clear	3.3	4.0	1850	20	470	InGaN	X	
SEL1615C	High-intensity red	Clear	1.75	2.2	700	20	660	GaAlAs	X	5

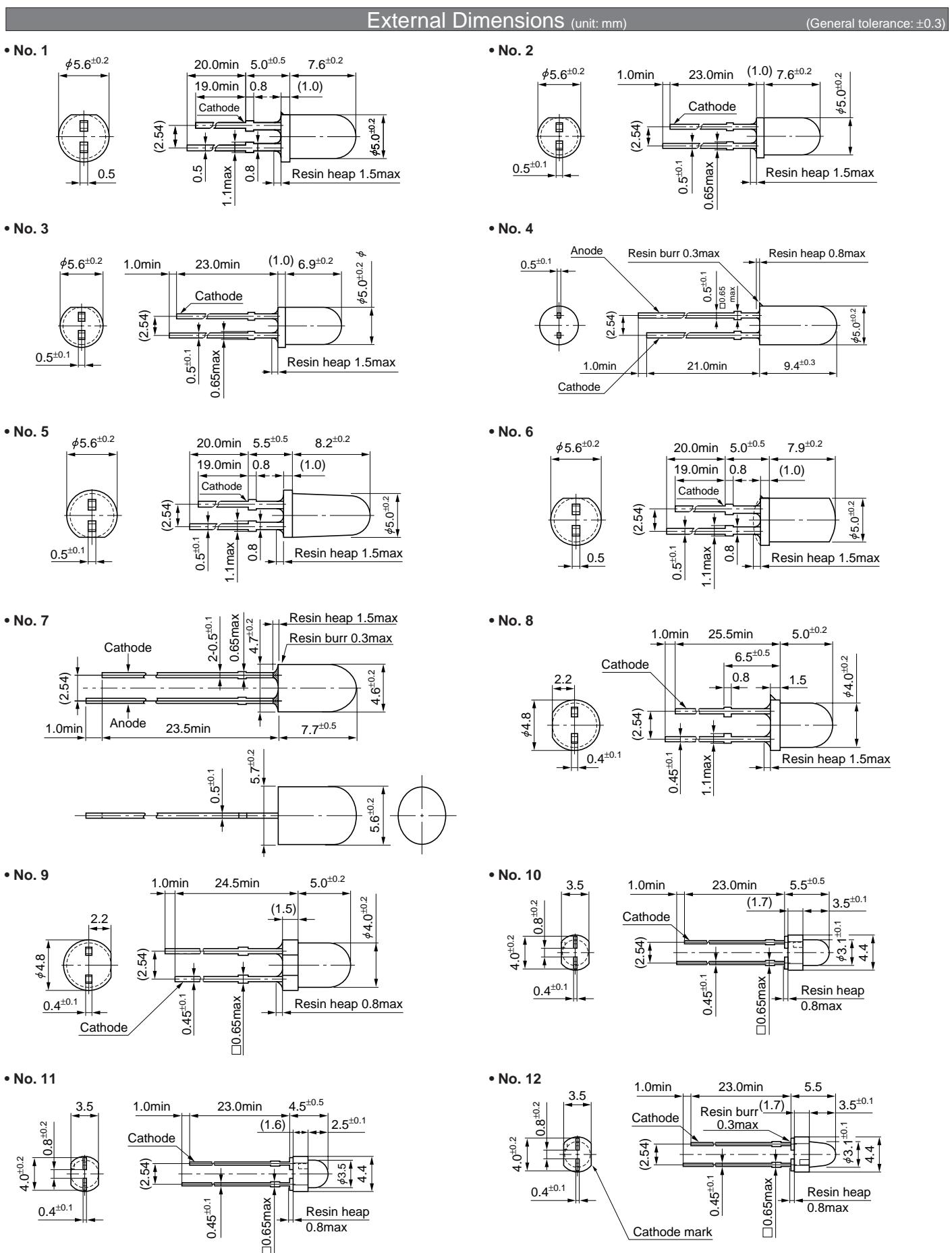
Shape	Part No.	Emitting Color	Lens Color	Forward Voltage Vf		Electro-Optical Characteristics (Ta=25°C)				Fig. No.
				If=10mA (V)		Intensity If (mod)		PeakWave length IP (mm)		Fig. No.
				typ	max	typ	typ	(mA)	typ	
5φ cylindrical type	SEL1111R	Deep red	Diffused red	2.0	2.5	1.4	10	700	GaP	X
	SEL1211R	Red	Diffused red	1.9	2.5	12	20	630	GaAsP	X
	SEL1811D	Amber	Diffused orange	1.9	2.5	8.0	10	610	GaAsP	X
	SEL1911D	Orange	Diffused orange	1.9	2.5	8.0	10	587	GaAsP	X
	SEL1711Y	Yellow	Diffused yellow	2.0	2.5	13	10	570	GaP	X
	SEL1411G	Green	Diffused green	2.0	2.5	30	20	560	GaP	X
46x58φ Egg-shaped type	SELU1253CMKT	Ultra-high-intensity red	Clear	2.0	2.5	200	2.0	635	AlGaNp	X
	SEL1453CEMKT	Green	Transparent green	2.0	2.5	140	2.0	560	GaP	X
	SEL4110S	Deep red	Transparent red	2.0	2.5	2.4	5	700	GaP	X
	SEL4110R	Red	Diffused red	1.9	2.5	1.7				X
	SEL4210S	Red	Transparent red	1.9	2.5	30	20	630	GaAsP	X
	SEL4210R	Red	Diffused red	1.9	2.5	17				X
	SEL4810A	Amber	Transparent orange	1.9	2.5	20				X
	SEL4810D	Amber	Diffused orange	1.9	2.5	15				X
	SEL4910A	Orange	Transparent orange	1.9	2.5	26				X
	SEL4910D	Orange	Diffused orange	1.9	2.5	16				X
	SEL4710K	Yellow	Transparent yellow	2.0	2.5	36				X
	SEL4710Y	Yellow	Diffused yellow	2.0	2.5	14				X
	SEL4410E	Green	Transparent green	2.0	2.5	87				X
	SEL4410G	Green	Diffused green	2.0	2.5	34				X
	SEL4510C	Pure Green	Clear	2.0	2.5	45	20	555	GaP	X
4φ round type	SEL4114S	Deep red	Transparent red	2.0	2.5	3.8	10	700	GaP	O
	SEL4114R	Red	Diffused red	1.9	2.5	2.8				O
	SEL4214S	Red	Transparent red	1.9	2.5	40	20	630	GaAsP	O
	SEL4214R	Red	Diffused red	1.9	2.5	24				O
	SEL4814A	Amber	Transparent orange	1.9	2.5	20				O
	SEL4814D	Amber	Diffused orange	1.9	2.5	15				O
	SEL4914A	Orange	Transparent orange	1.9	2.5	26				O
	SEL4914D	Orange	Diffused orange	1.9	2.5	11				O
	SEL4714K	Yellow	Transparent yellow	2.0	2.5	38				O
	SEL4714Y	Yellow	Diffused yellow	2.0	2.5	27				O
	SEL4414E	Green	Transparent green	2.0	2.5	69				O
	SEL4414G	Green	Diffused green	2.0	2.5	48				O
	SEL4514C	Pure Green	Clear	2.0	2.5	26	20	555	GaP	O
3φ round type	SEL6110S	Deep red	Transparent red	2.0	2.5	3.9	10	700	GaP	O
	SEL6110R	Red	Diffused red	1.9	2.5	2.6				O
	SEL6210S	Red	Transparent red	1.9	2.5	41	20	630	GaAsP	O
	SEL6210R	Red	Diffused red	1.9	2.5	18				O
	SEL6810A	Amber	Transparent orange	1.9	2.5	22				O
	SEL6810D	Amber	Diffused orange	1.9	2.5	9.6				O
	SEL6910A	Orange	Transparent orange	1.9	2.5	22	10	587	GaAsP	O
	SEL6910D	Orange	Diffused orange	1.9	2.5	11				O
	SEL6710K	Yellow	Transparent yellow	2.0	2.5	37				O
	SEL6710Y	Yellow	Diffused yellow	2.0	2.5	11				O
	SEL6410E	Green	Transparent green	2.0	2.5	90	20	560	GaP	O
	SEL6410G	Green	Diffused green	2.0	2.5	30				O
	SEL6510C	Pure Green	Clear	2.0	2.5	42				O
	SEL6510G	Pure Green	Diffused green	2.0	2.5	9.6	20	555	GaP	O

Shape	Part No.	Emitting Color	Lens Color	Forward Voltage V <sub>F</sub>		Electro-Optical Characteristics (Ta=25°C)						Fig. No.	
				I <sub>F</sub> =10mA (V)		Intensity		PeakWave length λ <sub>P</sub> (mm)		Chip Material			
				I <sub>V</sub> (mod) typ	I <sub>F</sub> (mA) max	I <sub>V</sub> typ	I <sub>F</sub> (mA) typ	length λ <sub>P</sub> typ	typ	Material	typ		
3φ round type	SEL6214S	Red	Transparent red	1.9	2.5	18	20	630	GaAsP	○		11	
	SEL6814A	Amber	Transparent orange	1.9	2.5	9.0	10	610	GaAsP	○			
	SELS6B14C	Ultra-high-intensity light amber	Clear	2.0	2.5	120	20	600	AlGaNp	○			
	SEL6914A	Orange	Transparent orange	1.9	2.5	8.0	10	587	GaAsP	○			
	SEL6914W		Diffused white			5.0				○			
	SEL6714K	Yellow	Transparent yellow	2.0	2.5	66	20	570	GaP	○			
	SEL6714W		Diffused white			30				○			
	SEL6414E	Green	Transparent green	2.0	2.5	42	20	560	GaP	○			
	SEL6414-E-TG	Deep green	Transparent green			18				○			
	SEL6514C	Pure green	Clear	2.0	2.5	12	20	555	GaP	○			
3φ round type	SEL6215S	Red	Transparent red	1.9	2.5	45	20	630	GaAsP	○		12	
	SEL6915A	Orange	Transparent orange	1.9	2.5	60	20	587	GaAsP	○			
	SEL6715C	Yellow	Clear	2.0	2.5	90	20	570	GaP	○			
	SEL6415E	Green	Transparent green	2.0	2.5	81	20	560	GaP	○			
	SEL6515C	Pure green	Clear	2.0	2.5	44	20	555	GaP	○			
	SEL2110S	Deep red	Transparent red			4	10	700	GaP	×			
	SEL2110R		Diffused red	2.0	2.5	1.8				×			
	SEL2110W		Diffused white			1.8				×			
	SEL2610C	High-intensity red	Clear	1.75	2.2	350	20	660	AlAlAs	×			
	SEL2210S	Red	Transparent red			40	20	630	GaAsP	×			
	SEL2210R		Diffused red	1.9	2.5	15				×			
	SEL2210W		Diffused white			15				×			
3φ round type	SEL2810A	Amber	Transparent orange			22	10	610	GaAsP	×		13	
	SEL2810D		Diffused orange	1.9	2.5	9.0				×			
	SEL2910A	Orange	Transparent orange	1.9	2.5	16	10	587	GaAsP	×			
	SEL2910D		Diffused orange			8.0				×			
	SELU2710C	Ultra-high-intensity yellow	Clear	2.0	2.5	270	20	572	AlGaNp	×			
	SEL2710K	Yellow	Transparent yellow	2.0	2.5	40	10	570	GaP	×			
	SEL2710Y		Diffused yellow			14				×			
	SEL2410E	Green	Transparent green	2.0	2.5	77	20	560	GaP	×			
	SEL2410G		Diffused green			20				×			
3φ round type	SEL2510C	Pure green	Clear	2.0	2.5	43	20	555	GaP	×			
	SEL2510G		Diffused green			8.2				×			
	SELU2D10C	Ultra-high-intensity pure green	Clear	3.3	4.0	1200	20	525	InGaN	×			
	SELU2E10C	Ultra-high-intensity blue	Clear	3.3	4.0	400	20	470	InGaN	×			
	SEL2E10C	Blue	Clear	3.8	4.8	60	20	430	GaN	×			
	SEL2125S	Red	Transparent red			45	20	630	GaAsP	×			
	SEL2215R		Diffused red	1.9	2.5	38				×			
3φ round type	SEL2815A	Amber	Transparent orange			80	10	610	GaAsP	×			
	SEL2815D		Diffused orange			60				×			
	SEL2915A	Orange	Transparent orange			81	10	587	GaAsP	×			
	SEL2915D		Diffused orange			53				×			
	SEL2715K	Yellow	Transparent yellow	2.0	2.5	130	10	570	GaP	×			
	SEL2715Y		Diffused yellow			110				×			
	SEL2415E	Green	Transparent green	2.0	2.5	110	20	560	GaP	×			
	SEL2415G		Diffused green			72				×			
2φ round type	SEL2515C	Pure green	Clear	2.0	2.5	52	20	555	GaP	×			
	SEL2111R	Deep red	Diffused red	2.0	2.5	0.7	10	700	GaP	×			
	SEL2911D	Orange	Diffused orange	1.9	2.5	3.3	10	587	GaAsP	×			
	SEL2411G	Green	Diffused green	2.0	2.5	18	20	560	GaP	×			
	SEL4117R	Deep red	Diffused red	2.0	2.5	1.1	10	700	GaP	×			
	SEL4817D	Amber	Diffused orange	1.9	2.5	7.5	10	610	GaAsP	×			
	SEL4917D	Orange	Diffused orange	1.9	2.5	7.5	10	587	GaAsP	×			
2φ round type	SEL4717Y	Yellow	Diffused yellow	2.0	2.5	14	20	570	GaP	×			
	SEL4417G	Green	Diffused green	2.0	2.5	16	20	560	GaP	×			
	SEL4417G	Green	Diffused green	2.0	2.5	16	20	560	GaP	×			
	SEL4417G	Green	Diffused green	2.0	2.5	16	20	560	GaP	×			
	SEL4417G	Green	Diffused green	2.0	2.5	16	20	560	GaP	×			
	SEL4417G	Green	Diffused green	2.0	2.5	16	20	560	GaP	×			
	SEL4417G	Green	Diffused green	2.0	2.5	16	20	560	GaP	×			
3φ cylindrical type	SEL1213C	Red	Transparent red	1.9	2.5	7.0	20	630	GaAsP	×		17	
	SEL1813A	Amber	Transparent orange	1.9	2.5	8.0	20	610	GaAsP	×			
	SEL1913K	Orange	Transparent light orange	1.9	2.5	8.0	20	587	GaAsP	×			
	SEL1713K	Yellow	Transparent yellow	2.0	2.5	15	20	570	GaP	×			
	SEL1413E	Green	Transparent green	2.0	2.5	12	20	560	GaP	×			
	SEL1513E	Pure green	Transparent light green	2.0	2.5	5.0	20	555	GaP	×			
	SEL6413E	Green	Transparent green	2.0	2.5	14	20	560	GaP	○			
	SEL6513C	Pure green	Clear	2.0	2.5	5.0	20	555	GaP	○			
	SEL2613CS-S	High-intensity red	Transparent light red	1.7	2.5	80	20	660	GaAlAs	×			
	SEL2213C	Red	Clear	1.9	2.5	7.0	20	630	GaAsP	×			
3φ cylindrical type	SEL2813A	Amber	Transparent orange	1.9	2.5	8.0	20	610	GaAsP	×		18	
	SEL2913K	Orange	Transparent light orange	1.9	2.5	8.0	20	587	GaAsP	×			
	SEL2713K	Yellow	Transparent yellow	2.0	2.5	17	20	570	GaP	×			
	SEL2413E	Green	Transparent green	2.0	2.5	14	20	560	GaP	×			
	SEL2413G	Diffused green	Diffused green			12	20	560	GaP	×			
	SEL2513E	Pure green	Transparent green	2.0	2.5	5.0				×			
	SEL1121R	Deep red	Diffused red	2.0	2.5	0.9	10	700	GaP	×			
	SEL1821D	Amber	Diffused orange	1.9	2.5	3.0	10	610	GaAsP	×			
	SEL1921D	Orange	Diffused orange	1.9	2.5	3.8	10	587	GaAsP	×			
	SEL1721Y	Yellow	Diffused yellow	2.0	2.5	7.0	10	570	GaP	×			
3φ cylindrical type	SEL1421G	Green	Diffused green	2.0	2.5	12	20	560	GaP	×		20	
	SEL1222R	Red	Diffused red	1.9	2.5	9.0	20	630	GaAsP	×			
	SEL1822D	Amber	Diffused orange	1.9	2.5	4.8	10	610	GaAsP	×			
	SEL1922D	Orange	Diffused orange	1.9	2.5	4.5	10	587	GaAsP	×			
	SEL1722Y	Yellow	Diffused yellow	2.0	2.5	7.8	10	570	GaP	×			
	SEL1722K	Yellow	Transparent yellow	2.0	2.5	12	10	570	GaP	×			
	SEL1422G	Green	Diffused green	2.0	2.5	20	20	560	GaP	×			
	SEL1120R	Deep red	Diffused red	2.0	2.5	0.9	10	700	GaP	×			
	SEL1220R	Red	Diffused red	1.9	2.5	4.8	20	630	GaAsP	×			
	SEL1820D	Amber	Diffused orange	1.9	2.5	3.0	10	610	GaAsP	×			
3φ cylindrical type	SEL1920D	Orange	Diffused orange	1.9	2.5	3.8	10	587	GaAsP	×		21	
	SEL1720Y	Yellow	Diffused yellow	2.0	2.5	7.0	10	570	GaP	×			
	SEL1420G	Green	Diffused green	2.0	2.5	11	20	560	GaP	×			
	SEL1124R	Deep red	Diffused red	2.0	2.5	0.5	10	700	GaP	×			
	SEL1824D</td												

Shape	Part No.	Emitting Color	Lens Color	Forward Voltage V <sub>F</sub>		Electro-Optical Characteristics (Ta=25°C)					Fig. No.	
				I <sub>f</sub> =10mA (V)		Intensity I <sub>v</sub> (mcd)		PeakWave-length λ <sub>P</sub> (mm)		Chip Material		
				typ	max	typ	(mA)	typ	(mm)	I <sub>f</sub> (mA)	Material	
4φ bow-shaped type	SEL4227C	Red	Clear	1.9	2.5	15	20	630	GaAsP	×	26	
	SEL4427EP	Green	Transparent green	2.0	2.5	19	20	560	GaP	×		
	SEL6227S	Red	Transparent red	1.9	2.5	14	20	630	GaAsP	○	27	
	SEL6927A	Orange	Transparent orange	1.9	2.5	10	10	587	GaAsP	○		
	SEL6427EP	Green	Transparent green	2.0	2.5	26	20	560	GaP	○		
3.1φ bow-shaped type	SEL4628C-S	High-intensity red	Clear	1.7	2.2	200	20	660	GaAlAs	×	28	
	SEL4228C	Red	Clear	1.9	2.5	27	20	630	GaAsP	×		
	SEL4828A	Amber	Transparent orange	1.9	2.5	14	10	610	GaAsP	×		
	SEL4928A	Orange	Transparent orange	1.9	2.5	14	10	587	GaAsP	×		
	SEL4728K	Yellow	Transparent yellow	2.0	2.5	30	10	570	GaP	×		
	SEL4428E	Green	Transparent green	2.0	2.5	63	20	560	GaP	×		
	SEL4428B-TG	Deep green	Transparent dark navy blue	2.0	2.5	18	20	558	GaP	×		
	SEL4528C	Pure green	Clear	2.0	2.5	30	20	555	GaP	×		
	SEL4229R	Red	Diffused red	1.9	2.5	21	20	630	GaAsP	○	29	
	SEL4829A	Amber	Transparent orange	1.9	2.5	18	10	610	GaAsP	○		
5mm pitch lead rectangular type	SEL4929A	Orange	Transparent orange	1.9	2.5	18	10	587	GaAsP	○		
	SEL4729KH	Yellow	Transparent yellow	2.0	2.5	60	10	570	GaP	○		
	SEL4429E	Green	Transparent green	2.0	2.5	60	20	560	GaP	○		
	SEL5620C	High-intensity red	Clear	1.7	2.2	100	20	660	GaAlAs	○	30	
	SEL5220S	Red	Transparent red	1.9	2.5	20	20	630	GaAsP	○		
5mm pitch lead 3φ lens type	SEL5820A	Amber	Transparent orange	1.9	2.5	12	20	610	GaAsP	○		
	SEL5920A	Orange	Transparent orange	1.9	2.5	12	20	587	GaAsP	○		
	SEL5420E	Green	Transparent green	2.0	2.5	20	20	560	GaP	○		
	SEL5520C	Pure green	Clear	2.0	2.5	6.0	20	555	GaP	○		
	SELU5E20C	Ultra-high-intensity blue	Clear	3.3	4.0	60	10	470	InGaN	○		
5mm pitch lead egg-shaped type	SEL5221S	Red	Transparent red	1.9	2.5	35	20	630	GaAsP	○	31	
	SEL5821A	Amber	Transparent orange	1.9	2.5	60	20	610	GaAsP	○		
	SEL5921A	Orange	Transparent orange	1.9	2.5	60	20	587	GaAsP	○		
	SEL5721C	Yellow	Clear	2.0	2.5	90	20	570	GaP	○		
	SEL5421E	Green	Transparent green	2.0	2.5	95	20	560	GaP	○		
5mm pitch lead 3φ lens type	SEL5521C	Pure green	Clear	2.0	2.5	35	20	555	GaP	○		

Shape	Part No.	Emitting Color	Lens Color	Forward Voltage V <sub>F</sub>		Electro-Optical Characteristics (Ta=25°C)					Fig. No.	
				I <sub>f</sub> =10mA (V)		Intensity I <sub>v</sub> (mcd)		PeakWave-length λ <sub>P</sub> (mm)		Chip Material		
				typ	max	typ	(mA)	typ	(mm)	I <sub>f</sub> (mA)	Material	
5mm pitch lead bow type	SEL5223C	Ultra-high-intensity red	Clear	2.0	2.5	100	20	635	AlGaNp	○	32	
	SEL5223S	Red	Transparent red	1.9	2.5	25	20	630	GaAsP	○		
	SEL5823C	Ultra-high-intensity amber	Clear	2.0	2.5	130	20	615	AlGaNp	○		
	SEL5823C	Clear	185									
	SEL5823A	Amber	Transparent orange	1.9	2.5	35	20	610	GaAsP	○		
5mm pitch lead egg-shaped type	SEL55B23C	Ultra-high-intensity light amber	Clear	2.0	2.5	135	20	600	AlGaNp	○	33	
	SEL5923C	Ultra-high-intensity orange	Clear	2.0	2.5	145	20	590	AlGaNp	○		
	SEL5923A	Orange	Transparent orange	1.9	2.5	35	20	587	GaAsP	○		
	SELU5723C	Ultra-high-intensity yellow	Clear	2.0	2.5	155	20	572	AlGaNp	○		
	SEL5723C	Yellow	Clear	2.0	2.5	60	20	570	GaP	○		
5mm pitch lead rectangular type	SEL5423E	Green	Transparent green	2.0	2.5	40	20	560	GaP	○	30	
	SEL5523C	Pure green	Clear	2.0	2.5	13	20	555	GaP	○		
	SELU5E23C	Ultra-high-intensity blue	Clear	3.6	4.0	110	10	470	InGaN	○		
	SEL5E23C	Blue	Clear	4.0	4.8	20	20	430	GaN	○		
	SEL5255S	Red	Transparent red	1.9	2.5	35	20	630	GaAsP	○		
5mm pitch lead 3φ lens type	SEL5955A	Orange	Transparent orange	1.9	2.5	25	20	587	GaAsP	○	31	
	SEL7555C	Yellow	Clear	2.0	2.5	140	20	570	GaP	○		

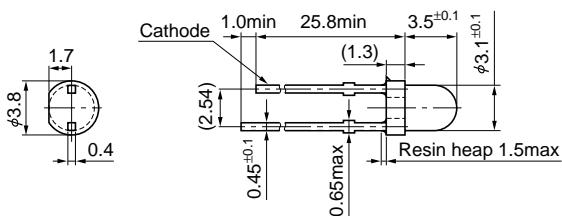
\* Anode lead and cathode lead for GaAlAs products are positioned reversely.



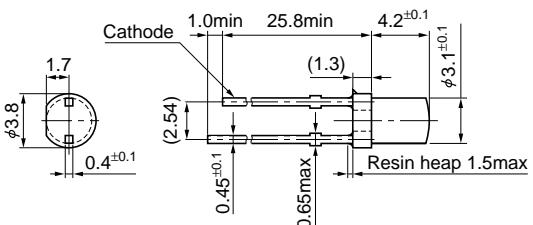
## External Dimensions (unit: mm)

(General tolerance:  $\pm 0.3$ )

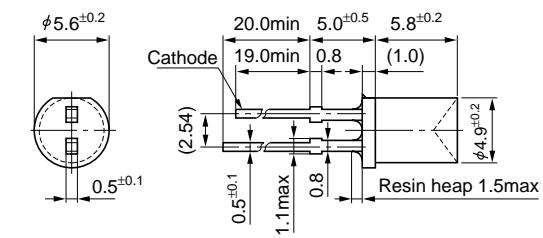
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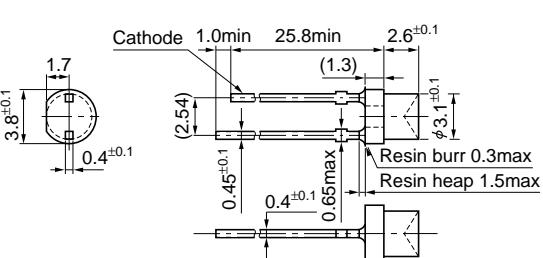
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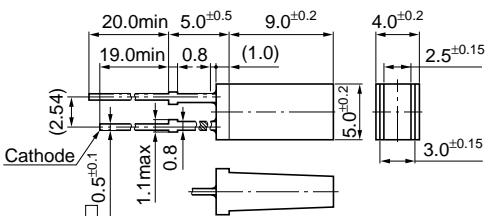
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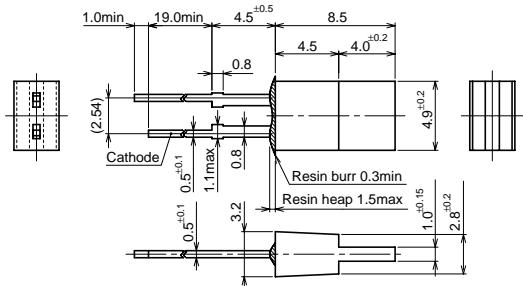
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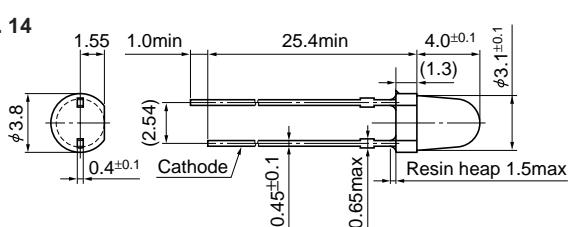
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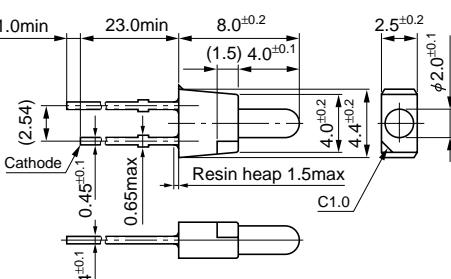
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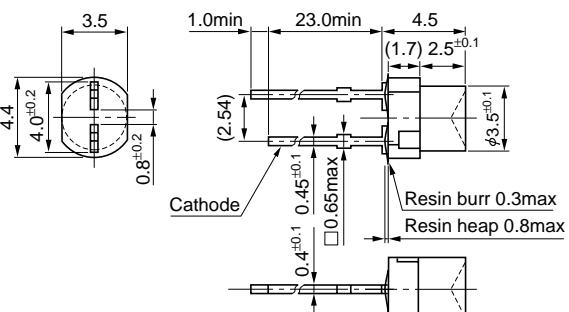
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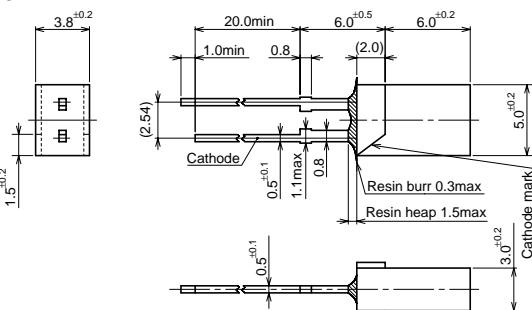
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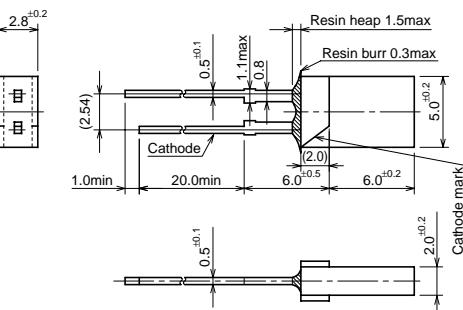
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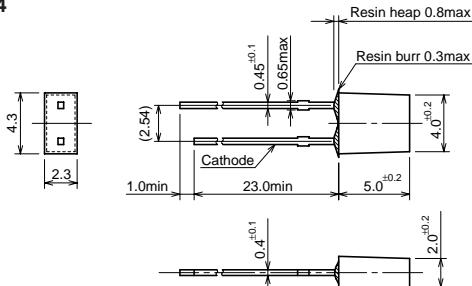
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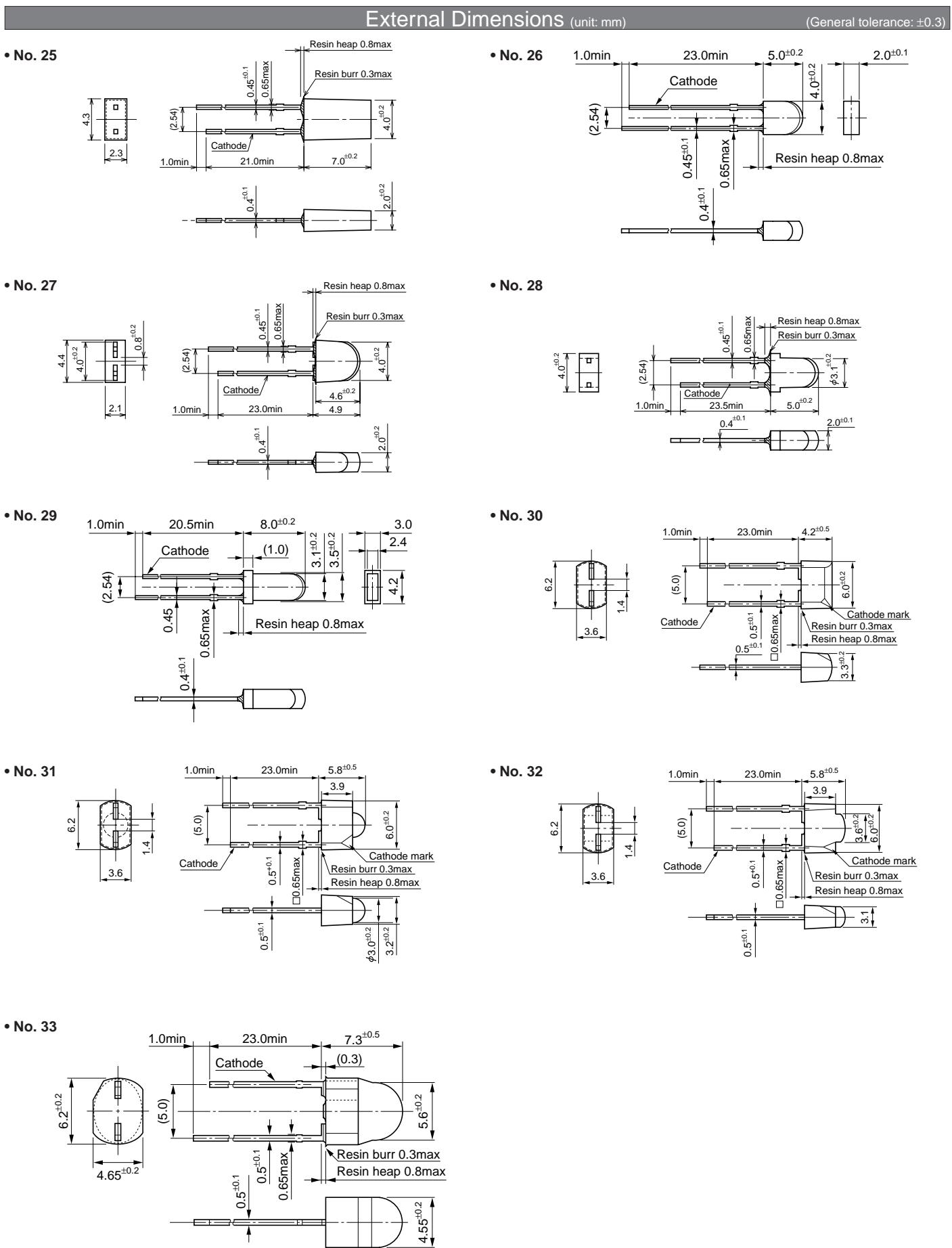


• No. 22



• No. 24





## 5-1-2 Bicolor Lamps

### Absolute Maximum Ratings

(Ta=25°C)

Parameter	Unit	Ratings	Conditions
I <sub>F</sub>	mA	30	
ΔI <sub>F</sub>	mA/°C	-0.45	Above 25°C
I <sub>FP</sub>	mA	100	f=1kHz, tw≤100μs
V <sub>R</sub>	V	4	
Top	°C	-30~+85	
T <sub>stg</sub>	°C	-30~+100	

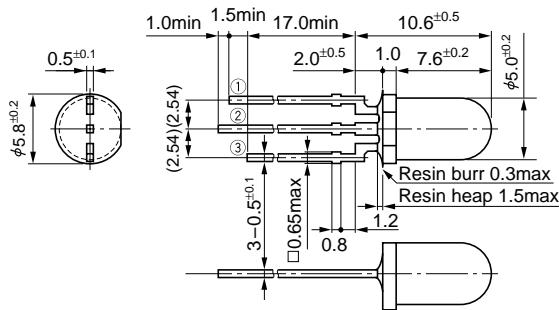
Shape	Part No.	Emitting Color	Lens Color	Forward Voltage V <sub>F</sub>		Electro-Optical Characteristics (Ta=25°C)				Common Terminal	Direct Mount	Fig. No.
				I <sub>F</sub> =10mA (V)		Intensity		PeakWave-length	I <sub>P</sub>			
				typ	max	typ	I <sub>V</sub> (mcd)	Conditions	I <sub>F</sub> (mm)			
5φ round type	SML11516C	Deep red	Clear	2.0	2.5	15	20	700	Cathode	×	34	
		Pure green		2.0	2.5	50	20	555				
	SML1216C	Red	Clear	1.9	2.5	65	20	630	Cathode	×		
		Green		2.0	2.5	90	20	560				
	SML1216W	Red	Diffused white	1.9	2.5	60	20	630	Cathode	×		
		Green		2.0	2.5	60	20	560				
	SML1516W	Deep red	Diffused white	2.0	2.5	6.0	20	700	Cathode	×		
		Pure green		2.0	2.5	20	20	555				
	SML16716CN	High-intensity red	Clear	1.7	2.2	100	20	660	Anode	×		
		Yellow		2.4	3.0	140	20	570				
2.5x5 rectangular type	SML16716WN	High-intensity red	Diffused white	1.7	2.2	50	20	660	Anode	×		
		Yellow		2.4	3.0	70	20	570				
	SML1816W	Amber	Diffused white	1.9	2.5	50	20	610	Cathode	×		
		Green		2.0	2.5	60	20	560				
	SML19416W	Orange	Diffused white	1.9	2.5	45	20	587	Cathode	×		
		Green		2.0	2.5	60	20	560				
	SML12451W	Red	Diffused white	1.9	2.5	40	20	630	Cathode	×		
		Green		2.0	2.5	60	20	560				
	SML16751WN	High-intensity red	Diffused white	1.7	2.2	50	20	660	Anode	×		
		Yellow		2.4	3.0	60	20	570				
3.3x6 bow-shaped type	SML12460C	Red	Clear	1.9	2.5	10	20	630	Cathode	×	35	
		Green		2.0	2.5	25	20	560				
	SML16760CN	High-intensity red	Clear	1.7	2.2	30	20	660	Anode	×		
		Yellow		2.4	3.0	40	20	570				
	SML19460C	Orange	Clear	1.9	2.5	15	20	587	Cathode	×		
		Green		2.0	2.5	25	20	560				
	SML72420C	Red	Clear	1.9	2.5	15	20	630	Cathode	○		
		Green		2.0	2.5	20	20	560				
	SML78420C	Amber	Clear	1.9	2.5	10	20	610	Cathode	○		
		Green		2.0	2.5	20	20	560				
	SML79420C	Orange	Clear	1.9	2.5	10	20	587	Cathode	○		
		Green		2.0	2.5	20	20	560				
3.3x6 bow-shaped type	SML72423C	Red	Clear	1.9	2.5	25	20	630	Cathode	○	38	
		Green		2.0	2.5	35	20	560				
	SML72923C	Red	Clear	1.9	2.5	25	20	630	Cathode	○		
		Orange		1.9	2.5	25	20	587				
	SML78423C	Amber	Clear	1.9	2.5	25	20	610	Cathode	○		
		Green		2.0	2.5	35	20	560				
	SML79423C	Orange	Clear	1.9	2.5	25	20	587	Cathode	○		
		Green		2.0	2.5	35	20	560				
3.3x6 bow-shaped type	SMLS79723C	Ultra-high-intensity orange	Clear	2.0	2.5	150	20	590	Cathode	○	39	
		Yellow		2.0	2.5	40	20	570				

Shape	Part No.	Emitting Color	Lens Color	Forward Voltage V <sub>F</sub>		Electro-Optical Characteristics (Ta=25°C)				Common Terminal	Direct Mount	Fig. No.
				I <sub>F</sub> =10mA (V)		Intensity		PeakWave-length	I <sub>P</sub>			
				typ	max	typ	I <sub>V</sub> (mcd)	Conditions	I <sub>F</sub> (mm)			
Egg-shaped type	SML72755C	Red	Clear	1.9	2.5	45	20	630	Cathode	○	39	
		Yellow		2.0	2.5	75	20	570				
	SML79255C	Orange	Clear	1.9	2.5	40	20	587	Cathode	○		
		Red		2.0	2.5	45	20	630				
	SML79455C	Orange	Clear	1.9	2.5	45	20	587	Cathode	○		
		Green		2.0	2.5	75	20	560				
	SML76755WN	High-intensity red	Diffused white	1.7	2.2	50	20	660	Anode	○		
		Yellow		2.4	3.0	50	20	570				
	SMLU72755C	Ultra-high-intensity red	Clear	2.0	2.5	160	20	635	Cathode	○		
		Ultra-high-intensity yellow		2.0	2.5	170	20	572				
	SMLU78755C	Ultra-high-intensity amber	Clear	2.0	2.5	280	20	615	Cathode	○		
		Ultra-high-intensity yellow		2.0	2.5	170	20	572				

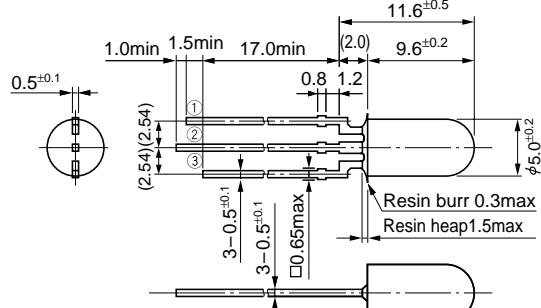
## External Dimensions (unit: mm)

(General tolerance:  $\pm 0.3$ )

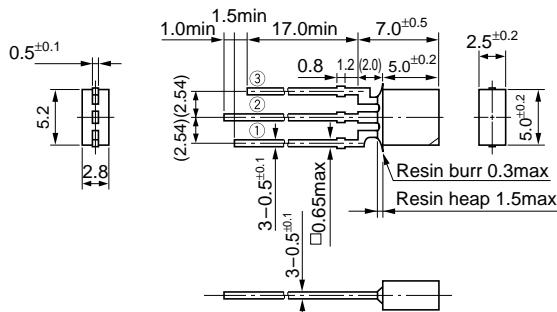
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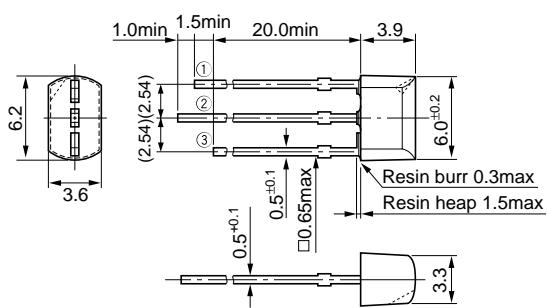
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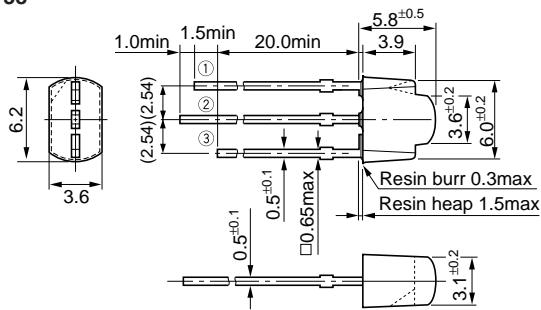
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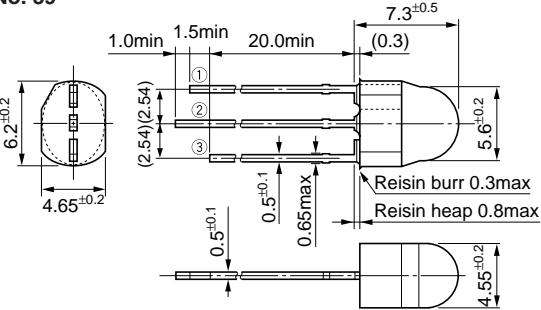
• No. 37



• No. 38



• No. 39



## 5-2-1 Single-color Surface mount

### Absolute Maximum Ratings

(Ta=25°C)

Parameter	Unit	Ratings					Conditions
		Gap	GaAsP	GaAlAs	AlGaNp	InGaN	
I <sub>F</sub>	mA	30					
ΔI <sub>F</sub>	mA/°C	-0.45					Above 25°C
I <sub>FP</sub>	mA	70					f=1kHz, tw≤100μs
V <sub>R</sub>	V	4		5			
Top	°C	-30~+85		-25~+85			
T <sub>tsg</sub>	°C	-30~+100					

Shape	Part No.	Emitting Color	Lens Color	Forward Voltage V <sub>F</sub>		Electro-Optical Characteristics (Ta=25°C)				Fig. No.	
						Intensity		PeakWave-length λ <sub>P</sub>	Chip Material		
				I <sub>F</sub> =10mA (V)	I <sub>F</sub> (mcd)	I <sub>F</sub> (mA)	Conditions				
Flat lens type	SEC1101C	Deep red	Clear	2.0	2.5	1.5	20	700	GaP	40	
	SEC1601C	High-intensity red	Clear	1.7	2.2	100	20	660	GaAlAs		
	SEC1201C	Red	Clear	1.9	2.5	10	20	630	GaAsP		
	SEC1801C	Amber	Clear	1.9	2.5	16	20	610	GaAsP		
	SEC1901C	Orange	Clear	1.9	2.5	13	20	587	GaAsP		
	SEC1701C-YG	Yellow	Clear	2.0	2.5	25	20	570	GaP		
	SEC1401C	Green	Clear	2.0	2.5	22	20	560	GaP		
	SEC1401E-TG	Deep green	Transparent green	2.0	2.5	11	20	558	GaP		
	SEC1501C	Pure green	Clear	2.0	2.5	8.0	20	555	GaP		
	SECU1D01C	Ultra-high-intensity pure green	Clear	3.3	4.0	150	20	525	InGaN		
	SECU1E01C	Ultra-high-intensity blue	Clear	3.3	4.0	50	20	470	InGaN		
	SEC1E01C	Blue	Clear	3.9	4.8	6.0	20	430	GaN		
	SEC1603C	High-intensity red	Clear	1.7	2.2	150	20	660	GaAlAs		
	SECS1203C	Ultra-high-intensity red	Clear	1.9	2.5	100	20	635	AlGaNp		
Inner lens type	SEC1203C	Red	Clear	1.9	2.5	15	20	630	GaAsP		
	SECS1803C	Ultra-high-intensity amber	Clear	1.9	2.5	10	3	615	AlGaNp	41	
	SEC1803C	Amber	Clear	1.9	2.5	20	20	610	GaAsP		
	SECS1903C	Ultra-high-intensity orange	Clear	1.9	2.5	10	3	590	AlGaNp		
	SEC1903C	Orange	Clear	1.9	2.5	15	20	587	GaAsP		
	SEC1703C	Yellow	Clear	2.0	2.5	35	20	570	GaP		
	SEC1403C	Green	Clear	2.0	2.5	33	20	560	GaP		
	SEC1403E-TG	Deep green	Transparent green	2.0	2.5	15	20	558	GaP		
	SEC1503C	Pure green	Clear	2.0	2.5	10	20	555	GaP		

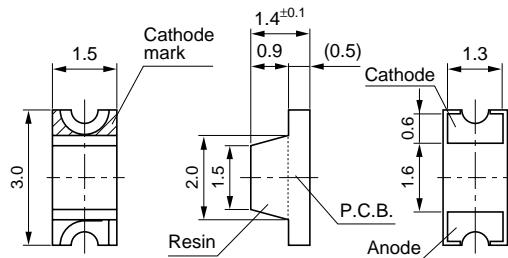
## 5-2-2 Bicolor Surface mount

Shape	Part No.	Emitting Color	Lens Color	Electro-Optical Characteristics (Ta=25°C)						Fig. No.	
				Forward Voltage V <sub>F</sub>		Intensity		PeakWave-length λ <sub>P</sub>	Conditions		
				I <sub>F</sub> =10mA (V)	I <sub>F</sub> (mcd)	I <sub>F</sub> (mA)	typ				
Flat lens type	SEC2422C	Red	Clear	1.9	1.9	2.5	20	630	20	630	
		Green		2.0	2.0	2.5	20	560			
Flat lens type	SEC2442C	Green	Clear	2.0	2.0	2.5	20	560	20	560	
		Green		2.0	2.0	2.5	20	560			
Flat lens type	SEC2462C	High-intensity red	Clear	1.7	1.7	2.2	20	660	20	660	
		Green		2.0	2.0	2.5	20	560			
Flat lens type	SEC2492C	Orange	Clear	1.9	1.9	2.5	20	587	20	587	
		Green		2.0	2.0	2.5	20	560			
Flat lens type	SEC2552C	Pure green	Clear	2.0	2.0	2.5	20	555	20	555	
		Pure green		2.0	2.0	2.5	20	555			
Flat lens type	SEC2592C	Orange	Clear	1.9	1.9	2.5	20	587	20	587	
		Pure green		2.0	2.0	2.5	20	555			
Inner lens type	SEC2762C-YG	High-intensity red	Clear	1.7	1.7	2.2	20	660	20	660	
		Yellow		2.0	2.0	2.5	20	570			
Inner lens type	SEC2484C	Amber	Clear	1.9	1.9	2.5	20	610	20	610	
		Green		2.0	2.0	2.5	20	560			
Inner lens type	SEC2554C	Pure green	Clear	2.0	2.0	2.5	20	555	20	555	
		Pure green		2.0	2.0	2.5	20	555			
Inner lens type	SEC2494C	Orange	Clear	1.9	1.9	2.5	20	587	20	587	
		Green		2.0	2.0	2.5	20	560			
Inner lens type	SEC2764C	High-intensity red	Clear	1.7	1.7	2.2	20	660	20	660	
		Yellow		2.0	2.0	2.5	20	570			
Inner lens type	SEC2774C	Yellow	Clear	2.0	2.0	2.5	20	570	20	570	
		Yellow		2.0	2.0	2.5	20	570			

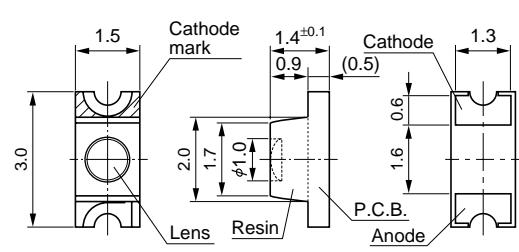
## External Dimensions (unit: mm)

(General tolerance:  $\pm 0.3$ )

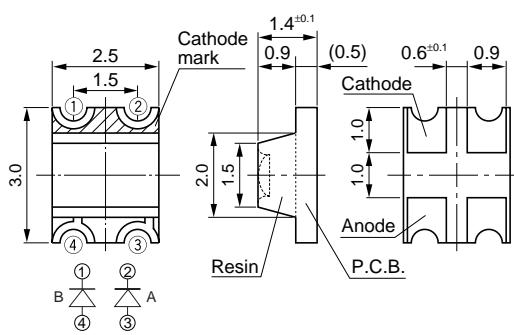
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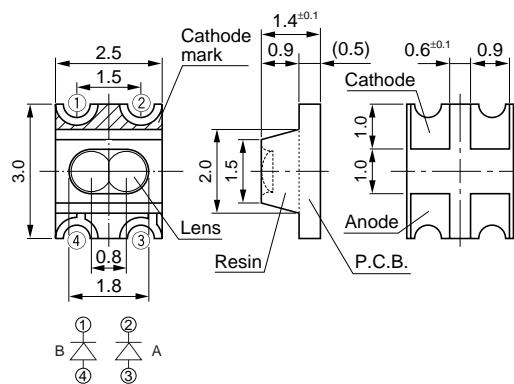
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• No. 42



• No. 43



### Absolute Maximum Ratings

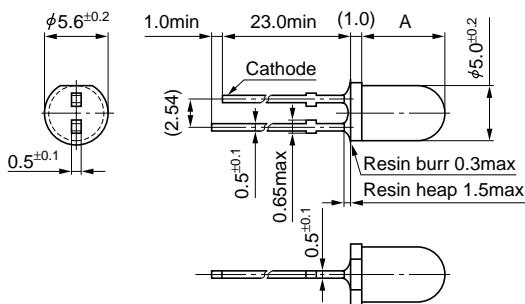
Parameter	Unit	Ratings	Conditions
I <sub>F</sub>	mA	100	
ΔI <sub>F</sub>	mA/°C	-1.33	Above 25°C
I <sub>FP</sub>	mA	1000	f=1kHz, t <sub>w</sub> ≤10μs
V <sub>R</sub>	V	5	
Top	°C	-30~+85	
T <sub>stg</sub>	°C	-30~+100	

Shape	Part No.	Emitting Color	Forward Voltage V <sub>F</sub>			Electro-Optical Characteristics (Ta=25°C)				Direct Mount	Fig. No.		
			I <sub>F</sub> =10mA (V)		typ	PeakWave-length λ <sub>P</sub> (nm)	Chip Material						
			typ	max			typ						
5φ round type	SID1010CM	Clear	1.3	1.5	130	(Constant voltage)	940	GaAs	×	44			
	SID1K10CM	Clear	1.3	1.5	200		940	GaAs	×				
	SID1010CXM	Clear	1.3	1.5	60		940	GaAs	×				
	SID1K10CXM	Clear	1.3	1.5	110		940	GaAs	×				
	SID1050CM	Clear	1.3	1.5	250	V <sub>cc</sub> =3V, R=2.2Ω	940	GaAs	○	45			
	SID303C	Clear	1.3	1.5	80		940	GaAs	×				
	SID313BP	Transparent light purple	1.3	1.5	130		940	GaAs	×	46			
	SID1003BQ	Transparent light navy blue	1.3	1.5	180		940	GaAs	×				
3φ round type	SID307BR	Transparent dark navy blue	1.3	1.5	200	I <sub>F</sub> =50mA	940	GaAs	×	47			
	SID1G307C	Clear	1.5	1.8	50		850	GaAlAs	×				
	SID2010C	Clear	1.3	1.5	7.0		940	GaAs	×				
	SID2K10C	Clear	1.3	1.5	14		940	GaAs	×				

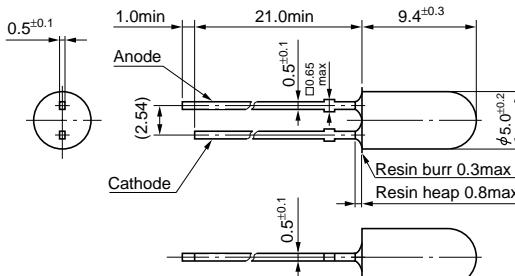
### External Dimensions (unit: mm)

(General tolerance: ±0.3)

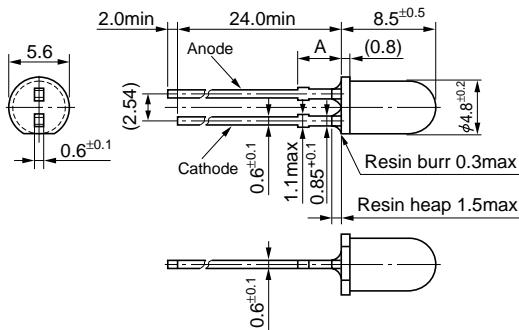
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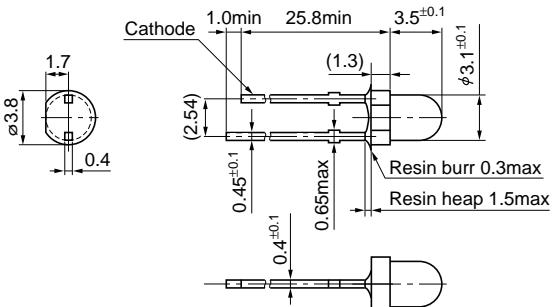
• No. 45



• No. 46



• No. 47



(unit: mm)

### Dimension A

SID 303C	3.0±0.5
SID 313BP	3.6±0.5
SID 1003BQ	
SID 307BR	4.2±0.5
SID1G307C	

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