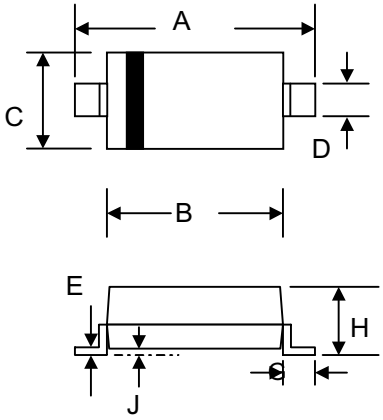
Data Sheet 2592 Rev.—

Features

- Planar Die Construction
- 500mW Power Dissipation
- 2.4-39V Nominal Zener Voltage
- 5% Standard V_Z Tolerance
- Designed for Surface Mount Application
- Plastic Material –UL Recognition Flammability Classification 94V-O



SOD-123		
Dim	**Min**	**Max**
A	3.6	3.9
B	2.5	2.8
C	1.4	1.8
D	0.5	0.7
E	—	0.2
G	0.4	—
H	0.95	1.35
J	—	0.12
All Dimensions in mm		

Mechanical Data

- Case: SOD-123, Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band
- Weight: 0.01 grams (approx.)

Maximum Ratings @T_A=25°C unless otherwise specified

Datasheet.Directory

Characteristic	Symbol	Value	Unit
Peak Pulse Power Dissipation at T_A=25°C	P_d	500	mW
Typical Thermal Resistance, Junction to Ambient Air	$R_{\theta JA}$	340	°C /W
Forward Voltage Drop @ I_F = 10mA	V_F	0.9	V
Operating and Storage Temperature Range	T_j, T_{STG}	-65 to +150	°C

.

Type Number (Note 1)	Device Marking Code	Nominal Zener Voltage V_Z@I_{ZT}	Test Current I_{ZT}	Maximum Zener impedance		Maximum reverse leakage current		Typical Temp. Coefficient of Zener Voltage
				Z_{ZT}@I_{ZT}	Z_{ZK}@ I_{ZK}=0.25mA	I_R	Test Voltage V_R(V)	
			mA	Ω	Ω	UA	V	%/k
MMSZ5221B	C1	2.4	20	30	1200	100	1.0	-0.075
MMSZ5222B	C2	2.5	20	30	1200	100	1.0	-0.075
MMSZ5223B	C3	2.7	20	30	1300	75	1.0	-0.075
MMSZ5225B	C5	3.0	20	30	1600	50	1.0	-0.075
MMSZ5226B	D1	3.3	20	28	1600	25	1.0	-0.070
MMSZ5227B	D2	3.6	20	24	1700	15	1.0	-0.065
MMSZ5228B	D3	3.9	20	23	1900	10	1.0	-0.060
MMSZ5229B	D4	4.3	20	22	2000	5	1.0	-0.055
MMSZ5230B	D5	4.7	20	19	1900	5	2.0	±0.030
MMSZ5231B	E1	5.1	20	17	1600	5	2.0	±0.030
MMSZ5232B	E2	5.6	20	11	1600	5	3.0	+0.038
MMSZ5234B	E4	6.2	20	7	1000	5	4.0	+0.045
MMSZ5235B	E5	6.8	20	5	750	3	5.0	+0.050
MMSZ5236B	F1	7.5	20	6	500	3	6.0	+0.058
MMSZ5237B	F2	8.2	20	8	500	3	6.5	+0.062
MMSZ5239B	F4	9.1	20	10	600	3	7.0	+0.068
MMSZ5240B	F5	10	20	17	600	3	8.0	+0.075
MMSZ5241B	H1	11	20	22	600	2	8.4	+0.076
MMSZ5242B	H2	12	20	30	600	1	9.1	+0.077
MMSZ5243B	H3	13	9.5	13	600	0.5	9.9	+0.079
MMSZ5245B	H5	15	8.5	16	600	0.1	11	+0.082
MMSZ5246B	J1	16	7.8	17	600	0.1	12	+0.083
MMSZ5248B	J3	18	7.0	21	600	0.1	14	+0.085
MMSZ5250B	J5	20	6.2	25	600	0.1	15	+0.086
MMSZ5251B	K1	22	5.6	29	600	0.1	17	+0.087
MMSZ5252B	K2	24	5.2	33	600	0.1	18	+0.087
MMSZ5254B	K4	27	4.6	41	600	0.1	21	+0.090
MMSZ5255B	K5	28	4.5	44	600	0.1	21	+0.091
MMSZ5256B	M1	30	4.2	49	600	0.1	23	+0.091
MMSZ5257B	M2	33	3.8	58	700	0.1	25	+0.092
MMSZ5258B	M3	36	3.4	70	700	0.1	27	+0.093
MMSZ5259B	M4	39	3.2	80	800	0.1	30	+0.094

Note: 1.Type numbers listed have standard tolerance on the nominal zener voltage of ±5%.
2.Measured with pulses t_p=1ms
3.f=1KHZ