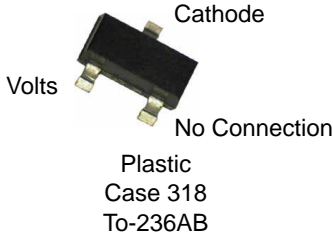
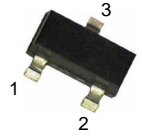


# ZENER DIODES - REGULATION IN SURFACE MOUNT

NOMINAL ZENER BREAKDOWN VOLTAGE	225mV SOT-23	
Volts		
2.7	BZX84C2V7LT1	MMBZ5223BLT1
3.3	BZX84C3V3LT1	MMBZ5226BLT1
5.1	BZX84C5V1LT1	MMBZ5231BLT1
6.8	BZX84C6V8LT1	MMBZ5235BLT1
9.1	BZX84C9V1LT1	MMBZ5239BLT1
12.0	BZX84C12LT1	MMBZ5242BLT1
18.0	BZX84C18LT1	MMBZ5248BLT1
24.0	BZX84C24LT1	MMBZ5252BLT1
27.0	BZX84C27LT1	MMBZ5254BLT1
36.0	BZX84C36LT1	MMBZ5258BLT1

## ZENER DIODES - ELECTRICAL CHARACTERISTICS



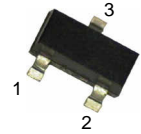
( Pinout : 1- Anode , 2- Nc , 3- Cathode ) ( VF = 0.9V Max. @ IF = 10mA for all types ) ( 225mW )

Type Number	Marking	Zener Voltage V <sub>Z1</sub> ( Volts ) @ I <sub>ZT1</sub> =5mA ( Note 1 )			Max. Zener Impedance Z <sub>ZT1</sub> ( ohms ) @ I <sub>ZT1</sub> =5mA	Max. Reverse Leakage Current		Zener Voltage V <sub>Z2</sub> ( Volts ) @ I <sub>ZT2</sub> =1mA ( Note 1 )		Max. Zener Impedance Z <sub>ZT2</sub> ( ohms ) @ I <sub>ZT2</sub> =1mA	Zener Voltage V <sub>Z3</sub> ( Volts ) @ I <sub>ZT3</sub> =20mA ( Note 1 )		Max. Zener Impedance Z <sub>ZT3</sub> ( ohms ) @ I <sub>ZT3</sub> =20mA	dvz / dt ( mV / k ) @ I <sub>ZT1</sub> =5mA		C <sub>PF</sub> Max. @ V <sub>R</sub> =0 f=1MHz
		Nom	Min.	Max.		I <sub>R</sub> ( uA )	V <sub>R</sub> Volts	Min.	Max.		Min.	Max.		Min.	Max.	
BZX84C2V7LT1	Z12	2.7	2.5	2.9	100	20.00	1.0	1.9	2.4	600	3.0	3.6	50	-3.5	0	450
BZX84C3V3LT1	Z14	3.3	3.1	3.5	95	5.00	1.0	2.3	2.9	600	3.6	4.2	40	-3.5	0	450
BZX84C5V1LT1	Z2	5.1	4.8	5.4	60	2.00	2.0	4.2	5.3	480	5.0	5.9	15	-2.7	1.2	225
BZX84C6V8LT1	Z5	6.8	6.4	7.2	15	2.00	4.0	6.3	7.2	80	6.4	7.4	6	1.2	4.5	155
BZX84C9V1LT1	Z8	9.1	8.5	9.6	15	0.50	6.0	8.4	9.6	100	8.5	9.7	8	3.8	7.0	130
BZX84C12LT1	Y2	12.0	11.4	12.7	25	0.10	8.0	11.2	12.7	150	11.4	12.9	10	6.0	10.0	130
BZX84C18LT1	Y6	18.0	16.8	19.1	45	0.05	12.6	16.7	19.0	225	16.9	19.2	20	12.4	16.0	100
BZX84C24LT1	Y9	24.0	22.8	25.6	70	0.05	16.8	22.7	25.5	250	22.9	25.7	25	18.4	22.0	80
		V <sub>Z1</sub> Below @ I <sub>ZT1</sub> =2mA			Z <sub>ZT1</sub> Below @ I <sub>ZT1</sub> =2mA			V <sub>Z2</sub> Below @ I <sub>ZT4</sub> =0.1mA		Z <sub>ZT2</sub> Below @ I <sub>ZT4</sub> = 0.5mA ( Note 2 )	V <sub>Z3</sub> Below @ I <sub>ZT3</sub> =10mA		Z <sub>ZT3</sub> Below @ I <sub>ZT3</sub> = 10mA	dvz / dt ( mV / k ) Below @ I <sub>ZT1</sub> =2mA		
BZX84C27LT1	Y10	27.0	25.1	28.9	80	0.05	18.9	25.0	28.9	300	25.2	29.3	45	21.4	25.3	70
BZX84C36LT1	Y13	36.0	34.0	38.0	90	0.05	25.2	33.8	38.0	350	34.1	38.4	60	30.4	37.4	70

Note : 1. Zener voltage is measured with a pulse test current ( I<sub>Z</sub> ) applied at an ambient temperature of 25°C.

2. The zener impedance, Z<sub>ZT2</sub>, for the 27 through 75 volt types is tested at 0.5mA rather than the test current of 0.1mA used for V<sub>Z2</sub>

## ZENER DIODES - ELECTRICAL CHARACTERISTICS



( Pinout : 1- Anode , 2- Nc , 3- Cathode ) ( VF = 0.9V Max. @ IF = 10mA for all types ) ( 225mW )

DEVICE	MARKING	TEST CURRENT I <sub>ZT</sub> mA	ZENER Voltage V <sub>Z</sub> ( ± 5% ) NORMAL ( NOTE 1 )	Z <sub>ZK</sub> I <sub>Z</sub> = 0.25mA Ω Max.	Z <sub>ZT</sub> I <sub>Z</sub> = I <sub>ZT</sub> @10%Mod Ω Max.	Max. @ I <sub>R</sub> ( uA )	Max. @ V <sub>R</sub> ( V )
MMBZ5223BLT1	18C	20.0	2.7	1300	30	75.0	1.0
MMBZ5226BLT1	8A	20.0	3.3	1600	28	25.0	1.0
MMBZ5231BLT1	8F	20.0	5.1	1600	17	5.0	2.0
MMBZ5235BLT1	8K	20.0	6.8	750	5	3.0	5.0
MMBZ5239BLT1	8P	20.0	9.1	600	10	3.0	7.0
MMBZ5242BLT1	8S	20.0	12.0	600	30	1.0	9.1
MMBZ5248BLT1	8Y	7.0	18.0	600	21	0.1	14.0
MMBZ5252BLT1	81C	5.2	24.0	600	33	0.1	18.0
MMBZ5254BLT1	81E	4.6	27.0	600	41	0.1	21.0
MMBZ5258BLT1	81J	3.4	36.0	700	70	0.1	27.0

Note : 1. Zener voltage is measured with a pulse test current ( I<sub>Z</sub> ) applied at an ambient temperature of 25°C.