

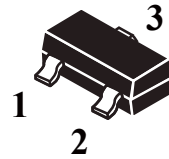
Surface Mount Zener Diode

(Pb) Lead(Pb)-Free

Features:

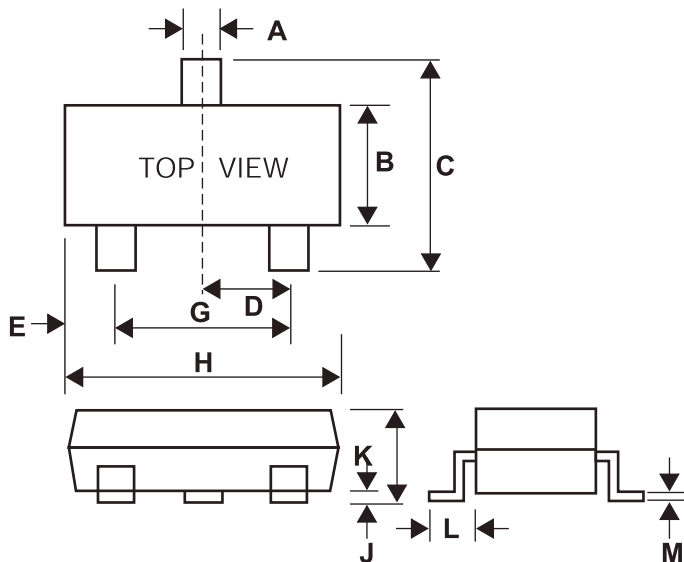
- * Non-Wire Bonding Structure Improves
- * High Demand Voltage Range (3.6V-36V)

**SMALL SIGNAL
ZENER DIODES
225m WATTS**



SOT-23 Outline Dimensions

Unit:mm




Dim	Min	Max
A	0.35	0.51
B	1.19	1.40
C	2.10	3.00
D	0.85	1.05
E	0.46	1.00
G	1.70	2.10
H	2.70	3.10
J	0.01	0.13
K	0.89	1.10
L	0.30	0.61
M	0.076	0.25

Maximum Ratings and Electrical Characteristics ($T_A=25^{\circ}\text{C}$ Unless Otherwise Noted)

Characteristics	Symbol	Value	Unit
Total Power Dissipation	P_D	225	mW
Junction and Storage Temperature Range	T_j	+125	$^{\circ}\text{C}$
Storage Temperature Range	T_{stg}	-55 to +125	$^{\circ}\text{C}$
Operating Temperature	T_{opr}	-55 to +125	$^{\circ}\text{C}$

Device Marking

Item	Marking	Equivalent Circuit Diagram
BZX84B Series	Specific Device Code (See Table on page3)	

ELECTRICAL CHARACTERISTICS (Ta = 25°C Unless Otherwise Specified)

Device	Device Marking	V _Z (Volts) @ I _{ZT1} = 5 mA (Note)		Z _{Zt1} (Ohms) @ I _{ZT1} = 5mA	Z _{Zt2} (Ohms) @ I _{ZT2} = 1mA	Z _{Zt3} (Ohms) @ I _{ZT3} = 0.5mA	Max Reverse Leakage Current	
		Min	Max				I _R μA @	V _R Volts
BZX84B2V0	02	2.020	2.200	100	-	1000	120	0.5
BZX84B2V2	12	2.220	2.410	100	-	1000	120	0.7
BZX84B2V4	22	2.430	2.630	100	-	1000	100	1.0
BZX84B2V7	32	2.690	2.910	110	-	1000	100	1.0
BZX84B3V0	42	3.010	3.220	120	-	1000	50	1.0
BZX84B3V3	52	3.320	3.530	120	-	1000	20	1.0
BZX84B3V6	62	3.600	3.845	100	1000	-	10	1.0
BZX84B3V9	72	3.890	4.160	100	1000	-	5	1.0
BZX84B4V3	82	4.170	4.430	100	1000	-	5	1.0
BZX84B4V7	92	4.550	4.750	100	-	800	2	1.0
BZX84B5V1	A2	4.980	5.200	80	-	500	2	1.5
BZX84B5V6	C2	5.490	5.730	60	-	200	1	2.5
BZX84B6V2	E2	6.060	6.330	60	-	100	1	3.0
BZX84B6V8	F2	6.650	6.930	40	-	60	0.5	3.5
BZX84B7V5	H2	7.280	7.600	30	-	60	0.5	4.0
BZX84B8V2	J2	8.020	8.360	30	-	60	0.5	5.0
BZX84B9V1	L2	8.850	9.230	30	-	60	0.5	6.0
BZX84B10	05	9.770	10.210	30	-	60	0.1	7.0
BZX84B11	15	10.760	11.220	30	-	60	0.1	8.0
BZX84B12	25	11.740	12.240	30	-	80	0.1	9.0
BZX84B13	35	12.910	13.490	37	-	80	0.1	10.0
BZX84B15	45	14.340	14.980	42	-	80	0.1	11.0
BZX84B16	55	15.850	16.510	50	-	80	0.1	12.0
BZX84B18	65	17.560	18.350	65	-	80	0.1	13.0
BZX84B20	75	19.520	20.390	85	-	100	0.1	15.0
BZX84B22	85	21.540	22.470	100	-	100	0.1	17.0
BZX84B24	95	23.720	24.780	120	-	120	0.1	19.0
BZX84B27	A5	26.190	27.530	150	-	150	0.1	21.0
BZX84B30	C5	29.190	30.690	200	-	200	0.1	23.0
BZX84B33	E5	32.150	33.790	250	-	250	0.1	25.0
BZX84B36	F5	35.070	36.870	300	-	300	0.1	27.0

Note: 1.The Zener Voltage (Vz) Is Measured 40ms After Power Is Supplied.
 2.The Operating Resistances (Zzt1,Zzt2,Zzt3) Are Measured by Superimposing
 A Minute Alternating Current On The Regulated Current.

ELECTRICAL CHARACTERISTIC CURVES (Ta=25°C)

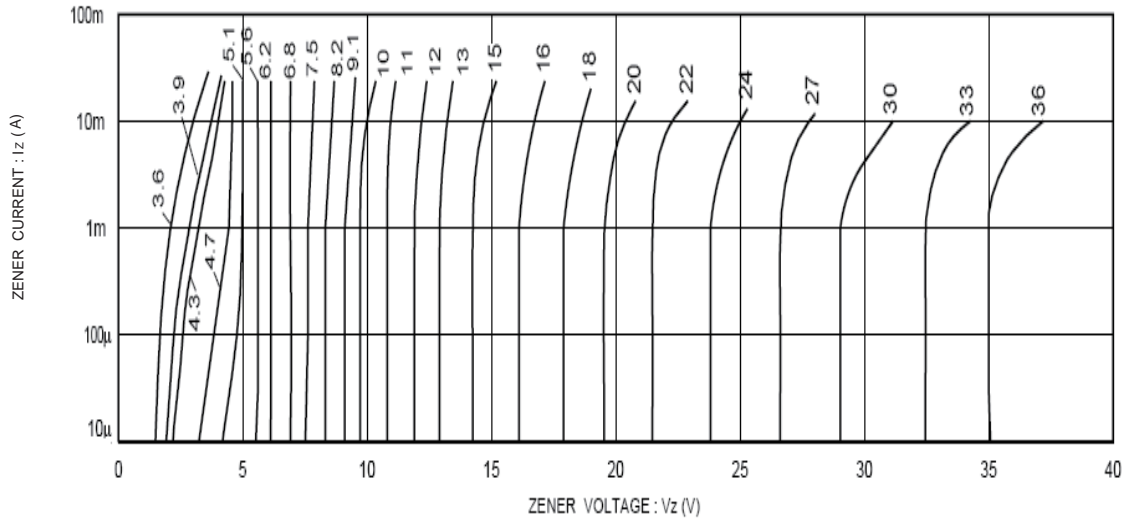


Fig.1 Zener voltage characteristics

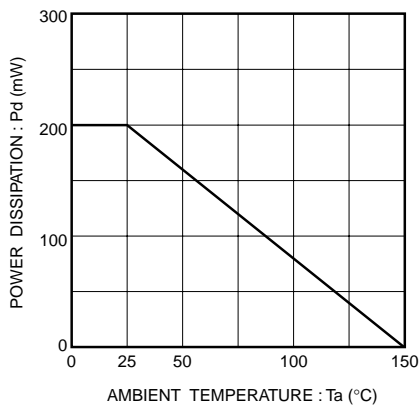


Fig.2 Derating curve

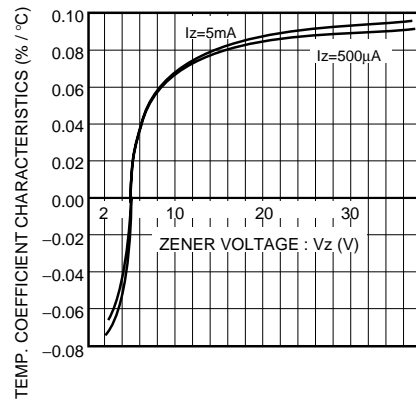


Fig.3 Zener voltage-temp. coefficient characteristics