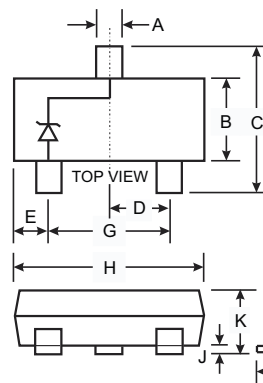


## Features

- Planar Die Construction
- 500mW Power Dissipation
- Zener Voltages from 2.4V - 75V
- Ideally Suited for Automated Assembly Processes
- ESD:HBM ----3B,MSL:Level 1



SOT-23		
Dim	Min	Max
A	0.37	0.51
B	1.19	1.40
C	2.10	2.50
D	0.89	1.05
E	0.45	0.61
G	1.78	2.05
H	2.65	3.05
J	0.013	0.15
K	0.89	1.10
L	0.45	0.61
M	0.076	0.178
All Dimensions in mm		

## Maximum Ratings @ $T_A = 25^\circ\text{C}$ unless otherwise specified

Characteristic	Symbol	Value	Unit
Forward Voltage @ $I_F = 10\text{mA}$	$V_F$	0.9	V
Power Dissipation (Note 1)	$P_d$	500	mW
Thermal Resistance, Junction to Ambient Air (Note 1)	$R_{\theta JA}$	357	K/W
Operating and Storage Temperature Range	$T_j, T_{STG}$	-65 to +150	$^\circ\text{C}$

- Notes:
1. Valid provided that device terminals are kept at ambient temperature.
  2. Tested with pulses, 300 $\mu\text{s}$  pulse width, period = 5ms.
  3.  $f = 1\text{KHz}$ .

Part Number	Marking	Nominal Zener Voltage			Max. Zener Impedance				Max.Reverse Leakage Current	
		Vz(V) @ I <sub>ZT</sub> *1			Z <sub>ZT</sub> @ I <sub>ZT</sub>		Z <sub>ZK</sub> @ I <sub>ZK</sub>		IR @ VR	
		Nom.	Min.	Max.	Ohm	mA	Ohm	mA	µA	V
BZX84C2V4	Z11	2.4	2.28	2.52	100	5	600	1	50	1.0
BZX84C2V7	Z12	2.7	2.5	2.9	100	5	600	1	20	1.0
BZX84C3V0	Z13	3	2.8	3.2	95	5	600	1	10	1.0
BZX84C3V3	Z14	3.3	3.1	3.5	95	5	600	1	5	1.0
BZX84C3V6	Z15	3.6	3.4	3.8	90	5	600	1	5	1.0
BZX84C3V9	Z16	3.9	3.7	4.1	90	5	600	1	3	1.0
BZX84C4V3	Z17	4.3	4	4.6	90	5	600	1	3	1.0
BZX84C4V7	Z1	4.7	4.4	5	80	5	500	1	3	2.0
BZX84C5V1	Z2	5.1	4.8	5.4	60	5	480	1	2	2.0
BZX84C5V6	Z3	5.6	5.2	6	40	5	400	1	1	2.0
BZX84C6V2	Z4	6.2	5.8	6.6	10	5	150	1	3	4.0
BZX84C6V8	Z5	6.8	6.4	7.2	15	5	80	1	2	4.0
BZX84C7V5	Z6	7.5	7	7.9	15	5	80	1	1	5.0
BZX84C8V2	Z7	8.2	7.7	8.7	15	5	80	1	0.7	5.0
BZX84C9V1	Z8	9.1	8.5	9.6	15	5	100	1	0.5	6.0
BZX84C10	Z9	10	9.4	10.6	20	5	150	1	0.2	7.0
BZX84C11	Y1	11	10.4	11.6	20	5	150	1	0.1	8.0
BZX84C12	Y2	12	11.4	12.7	25	5	150	1	0.1	8.0
BZX84C13	Y3	13	12.4	14.1	30	5	170	1	0.1	8.0
BZX84C15	Y4	15	13.8	15.6	30	5	200	1	0.1	10.5
BZX84C16	Y5	16	15.3	17.1	40	5	200	1	0.1	11.2
BZX84C18	Y6	18	16.8	19.1	45	5	225	1	0.1	12.6
BZX84C20	Y7	20	18.8	21.2	55	5	225	1	0.1	14.0
BZX84C22	Y8	22	20.8	23.3	55	5	250	1	0.1	15.4
BZX84C24	Y9	24	22.8	25.6	70	5	250	1	0.1	16.8
BZX84C27	Y10	27	25.1	28.9	80	2	300	1	0.1	18.9
BZX84C30	Y11	30	28	32	80	2	300	1	0.1	21.0
BZX84C33	Y12	33	31	35	80	2	325	1	0.1	23.1
BZX84C36	Y13	36	34	38	90	2	350	1	0.1	25.2
BZX84C39	Y14	39	37	41	130	2	350	1	0.1	27.3
BZX84C43	Y15	43	40.85	45.15	150	5	375	1	0.1	30.1
BZX84C47	Y16	47	44.65	49.35	170	5	375	1	0.1	32.9
BZX84C51	Y17	51	48.45	53.55	100	5	400	1	0.1	35.7
BZX84C62	Y19	62	58.0	66.0	215	2	450	0.5	0.05	43.4
BZX84C68	Y20	68	64.60	71.40	240	2	1600	0.25	0.1	52
BZX84C75	Y21	75	71.25	78.75	265	2	1700	0.25	0.1	56

Notes: 1. Valid provided that device terminals are kept at ambient temperature.  
2. Tested with pulses, 300µs pulse width, period = 5ms.  
3. f = 1KHz.

# RATING AND CHARACTERISTICS CURVES (BZX84C2V4 THRU BZX84C75)

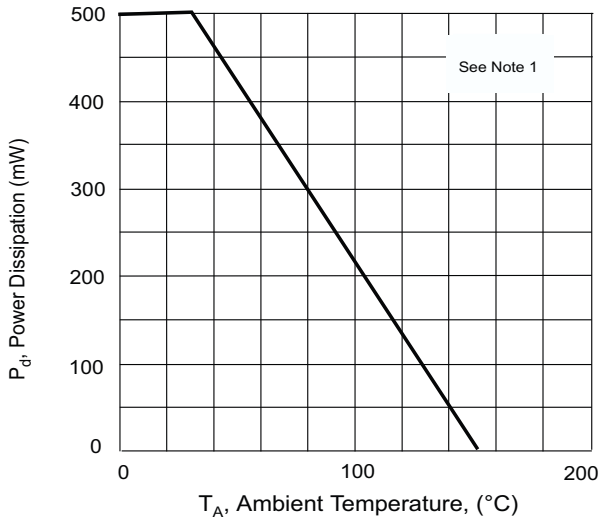


Fig. 1 Power Derating Curve

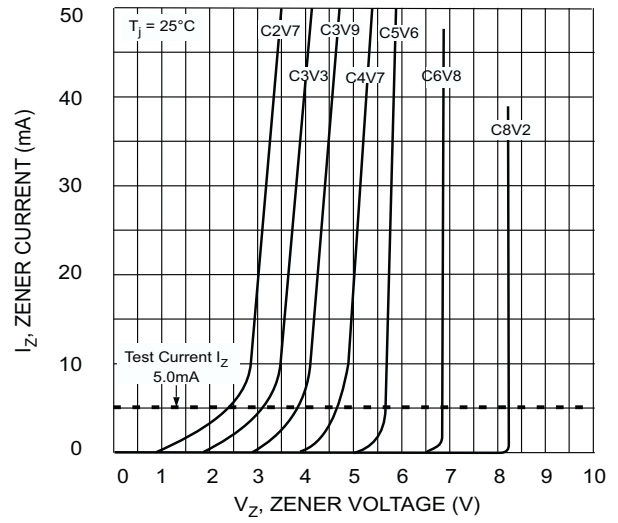


Fig. 2 Zener Breakdown Characteristics

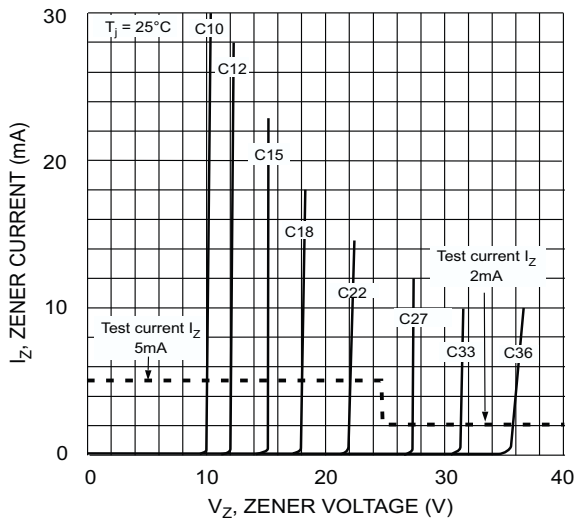


Fig. 3 Zener Breakdown Characteristics

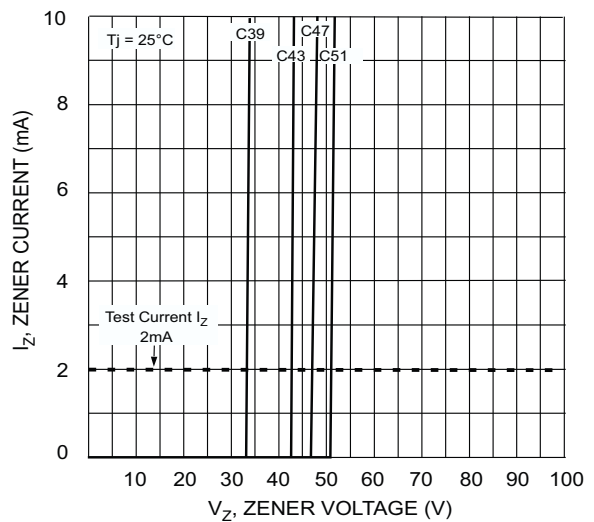


Fig. 4 Zener Breakdown Characteristics

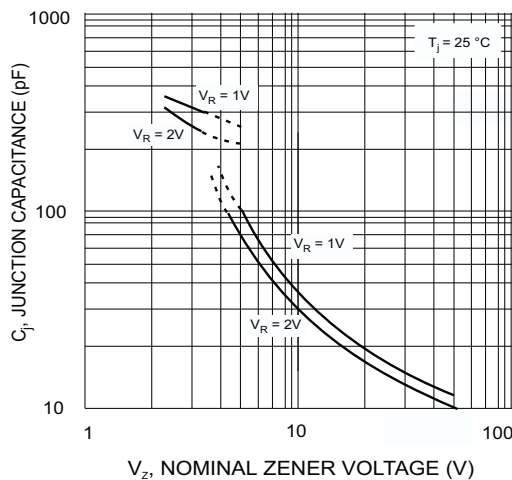


Fig. 5 Junction Capacitance vs Nominal Zener Voltage

# PACKAGING OF DIODE

## REEL PACK

PACKAGE	PACKING CODE	REEL ( EA )	COMPONENT SPACE(mm)	TAPE SPACE (mm)	REEL DIA (mm)	CARTON SIZE (mm)	EA PER CARTON	GROSS WEIGHT(Kg)
SOT-23/-3L	-T	3,000	---	---	178	438*438*220	180,000	---

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