

Maximum Ratings (@T_A = +25°C, unless otherwise specified.)

Characteristic	Symbol	Value	Unit
Forward Voltage @ I _F = 10mA	V _F	0.9	V

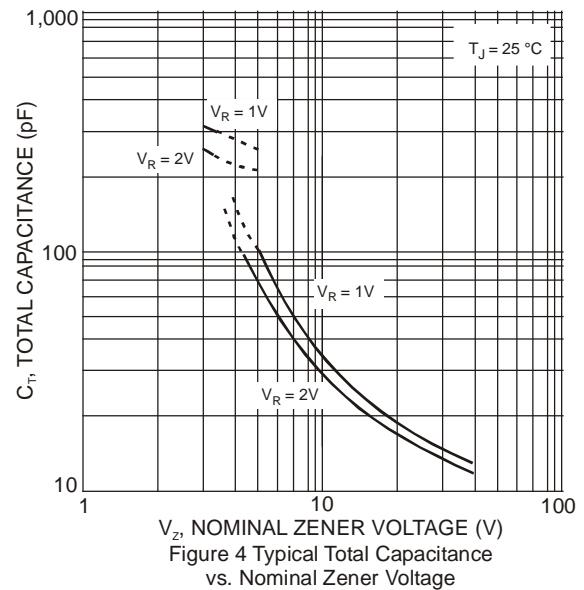
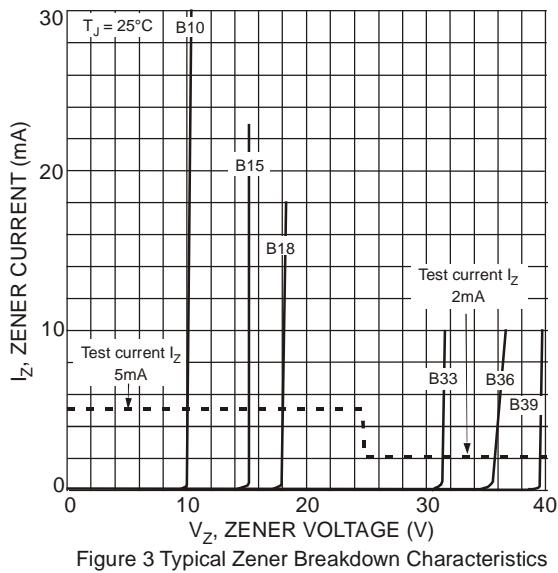
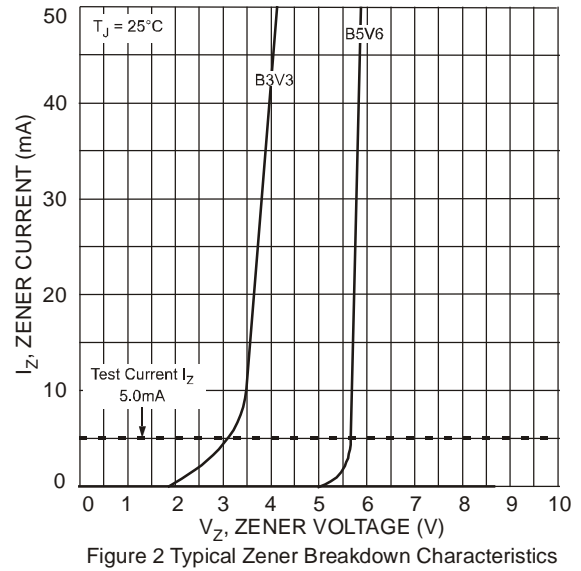
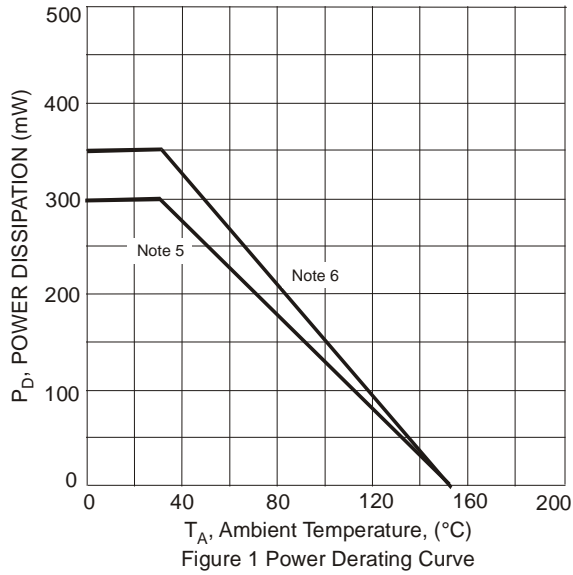
Thermal Characteristics

Characteristic	Symbol	Value	Unit
Power Dissipation (Note 5)	P _D	300	mW
Power Dissipation (Note 6)	P _D	350	mW
Thermal Resistance, Junction to Ambient Air (Note 5)	R _{θJA}	417	°C/W
Thermal Resistance, Junction to Ambient Air (Note 6)	R _{θJA}	357	°C/W
Operating and Storage Temperature Range	T _J , T _{STG}	-65 to +150	°C

Electrical Characteristics (@T_A = +25°C, unless otherwise specified.)

Type Number	Marking Code	Zener Voltage Range (Note 7)				Maximum Zener Impedance f = 1KHz			Maximum Reverse Current (Note 7)		Temperature Coefficient @ I _{ZT}	
		V _Z @ I _{ZT}			I _{ZT}	Z _{ZT} @ I _{ZT}	Z _{ZK} @ I _{ZK}	I _R	V _R	Min	Max	
		Nom (V)	Min (V)	Max (V)	(mA)	(Ω)	(Ω)	(mA)	(μA)	(V)	mV/°C	mV/°C
BZX84B2V7	KZC	2.7	2.65	2.75	5.0	100	600	1.0	20	1.0	-3.5	0
BZX84B3V0	KZD	3.0	2.94	3.06	5.0	95	600	1.0	10	1.0	-3.5	0
BZX84B3V3	KZE	3.3	3.23	3.37	5.0	95	600	1.0	5.0	1.0	-3.5	0
BZX84B3V6	KZF	3.6	3.53	3.67	5.0	90	600	1.0	5.0	1.0	-3.5	0
BZX84B3V9	KZG	3.9	3.82	3.98	5.0	90	600	1.0	3.0	1.0	-3.5	0
BZX84B4V3	KZH	4.3	4.21	4.39	5.0	90	600	1.0	3.0	1.0	-3.5	0
BZX84B4V7	KZ1	4.7	4.61	4.79	5.0	80	500	1.0	3.0	2.0	-3.5	0.2
BZX84B5V1	KZ2	5.1	5	5.2	5.0	60	480	1.0	2.0	2.0	-2.7	1.2
BZX84B5V6	KZ3	5.6	5.49	5.71	5.0	40	400	1.0	1.0	2.0	-2.0	2.5
BZX84B6V2	KZ4	6.2	6.08	6.32	5.0	10	150	1.0	3.0	4.0	0.4	3.7
BZX84B6V8	KZ5	6.8	6.66	6.94	5.0	15	80	1.0	2.0	4.0	1.2	4.5
BZX84B7V5	KZ6	7.5	7.35	7.65	5.0	15	80	1.0	1.0	5.0	2.5	5.3
BZX84B8V2	KZ7	8.2	8.04	8.36	5.0	15	80	1.0	0.7	5.0	3.2	6.2
BZX84B9V1	KZ8	9.1	8.92	9.28	5.0	15	100	1.0	0.5	6.0	3.8	7.0
BZX84B10	KZ9	10	9.8	10.2	5.0	20	150	1.0	0.2	7.0	4.5	8.0
BZX84B11	KY1	11	10.8	11.2	5.0	20	150	1.0	0.1	8.0	5.4	9.0
BZX84B12	KY2	12	11.8	12.2	5.0	25	150	1.0	0.1	8.0	6.0	10.0
BZX84B13	KY3	13	12.7	13.3	5.0	30	170	1.0	0.1	8.0	7.0	11.0
BZX84B15	KY4	15	14.7	15.3	5.0	30	200	1.0	0.1	10.5	9.2	13.0
BZX84B16	KY5	16	15.7	16.3	5.0	40	200	1.0	0.1	11.2	10.4	14.0
BZX84B18	KY6	18	17.6	18.4	5.0	45	225	1.0	0.1	12.6	12.4	16.0
BZX84B20	KY7	20	19.6	20.4	5.0	55	225	1.0	0.1	14.0	14.4	18.0
BZX84B22	KY8	22	21.6	22.4	5.0	55	250	1.0	0.1	15.4	16.4	20.0
BZX84B24	KY9	24	23.5	24.5	5.0	70	250	1.0	0.1	16.8	18.4	22.0
BZX84B27	KYA	27	26.5	27.5	2.0	80	300	0.5	0.1	18.9	21.4	25.3
BZX84B30	KYB	30	29.4	30.6	2.0	80	300	0.5	0.1	21.0	24.4	29.4
BZX84B33	KYC	33	32.3	33.7	2.0	80	325	0.5	0.1	23.1	27.4	33.4
BZX84B36	KYD	36	35.3	36.7	2.0	90	350	0.5	0.1	25.2	30.4	37.4
BZX84B39	KYE	39	38.2	39.8	2.0	130	350	0.5	0.1	27.3	33.4	41.2

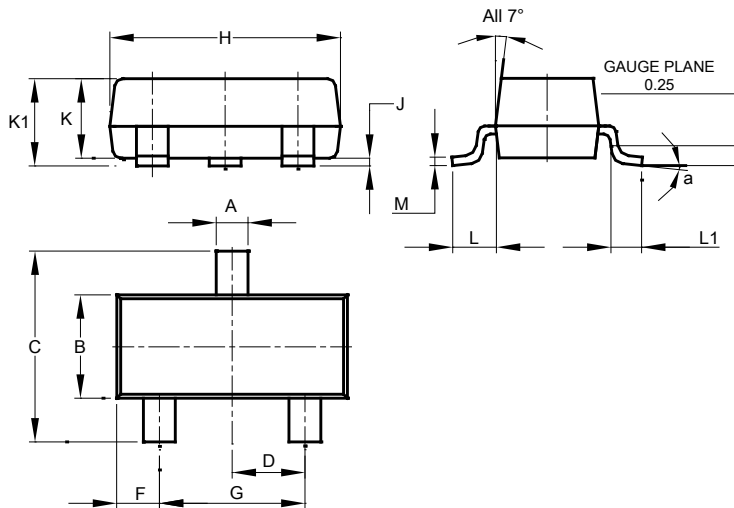
Notes: 5. Device mounted on FR-4 PCB with recommended pad layout, which can be found at <http://www.diodes.com>.
6. Valid provided the terminals are kept at ambient temperature.
7. Short duration pulse test used to minimize self-heating effect.



Package Outline Dimensions

Please see <http://www.diodes.com/package-outlines.html> for the latest version.

SOT23

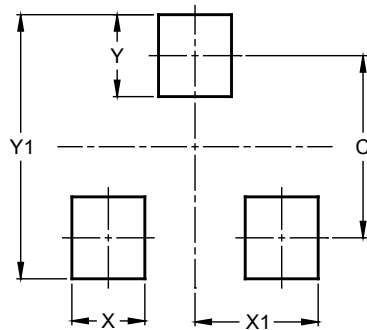


SOT23			
Dim	Min	Max	Typ
A	0.37	0.51	0.40
B	1.20	1.40	1.30
C	2.30	2.50	2.40
D	0.89	1.03	0.915
F	0.45	0.60	0.535
G	1.78	2.05	1.83
H	2.80	3.00	2.90
J	0.013	0.10	0.05
K	0.890	1.00	0.975
K1	0.903	1.10	1.025
L	0.45	0.61	0.55
L1	0.25	0.55	0.40
M	0.085	0.150	0.110
a	0°	8°	--
All Dimensions in mm			

Suggested Pad Layout

Please see <http://www.diodes.com/package-outlines.html> for the latest version.

SOT23



Dimensions	Value (in mm)
C	2.0
X	0.8
X1	1.35
Y	0.9
Y1	2.9

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