

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

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

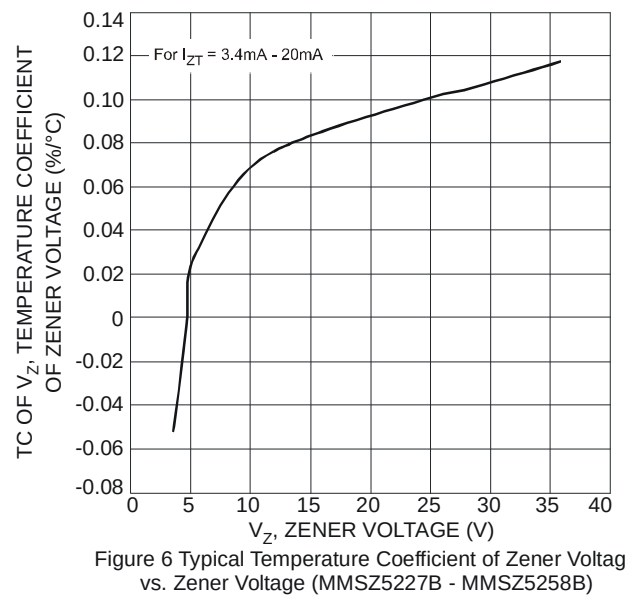
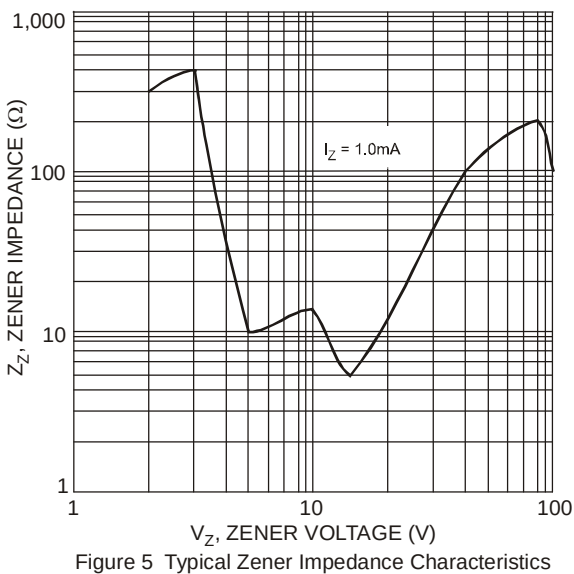
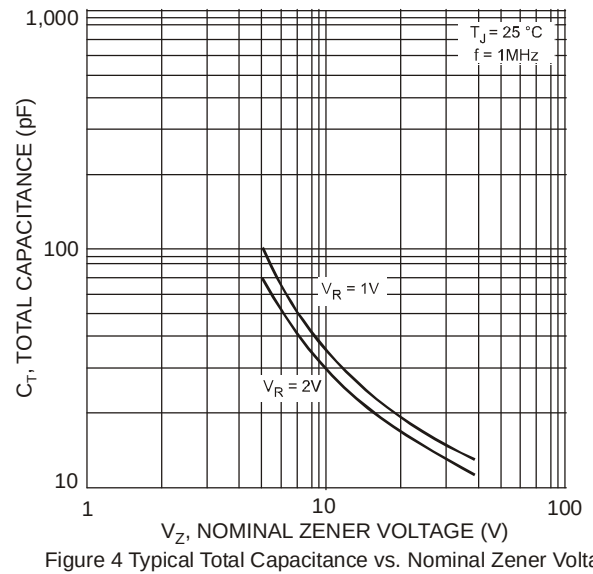
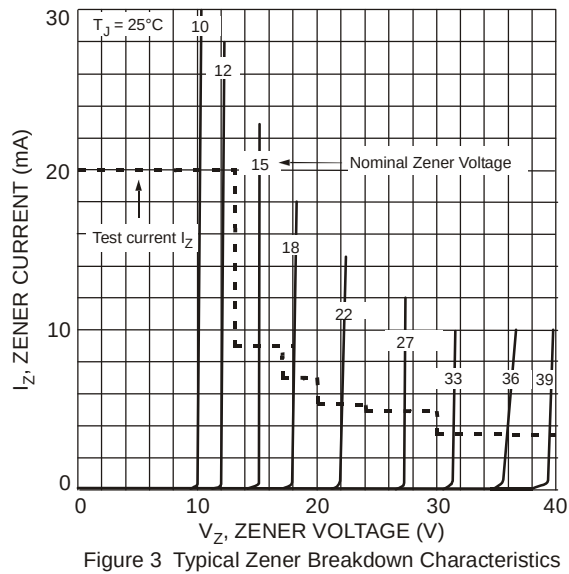
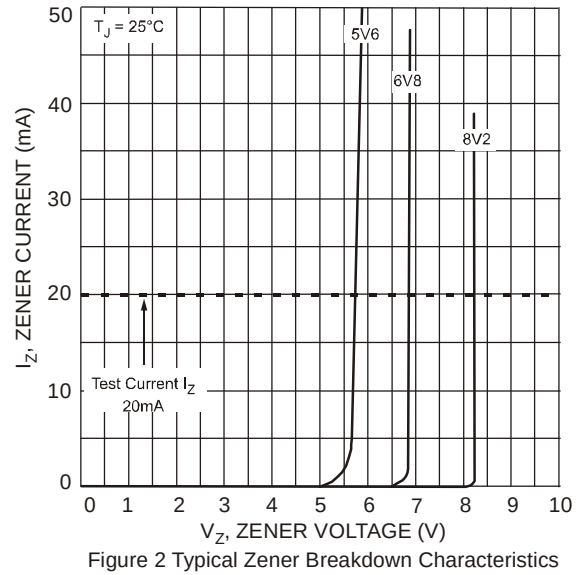
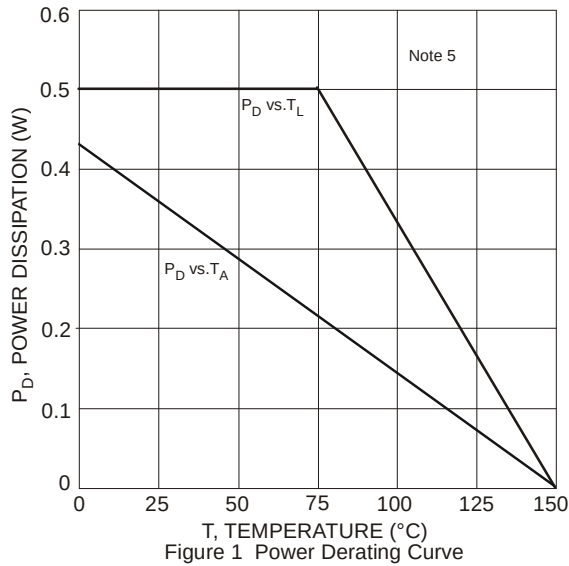
Thermal Characteristics

Characteristic	Symbol	Value	Unit
Power Dissipation (Note 4) @T _L = +75°C	P _D	500	mW
Power Dissipation (Note 5) @T _A = +25°C	P _D	370	mW
Thermal Resistance, Junction to Ambient Air (Note 5)	R _{θJA}	338	°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	Type Code	Zener Voltage Range (Note 6)			Test Current	Maximum Zener Impedance f = 1KHz		Maximum Reverse Leakage Current (Note 6)	
		V _Z @ I _{ZT}				I _{ZT}	Z _{ZT} @ I _{ZT}	Z _{ZK} @ I _{ZK} = 0.25mA	I _R
		Nom (V)	Min (V)	Max (V)	mA				
MMSZ5221B	C1	2.4	2.28	2.52	20	30	1,200	100	1.0
MMSZ5223B	C3	2.7	2.57	2.84	20	30	1,300	75	1.0
MMSZ5225B	C5	3.0	2.85	3.15	20	30	1,600	50	1.0
MMSZ5226B	G1	3.3	3.14	3.47	20	28	1,600	25	1.0
MMSZ5227B	G2	3.6	3.42	3.78	20	24	1,700	15	1.0
MMSZ5228B	G3	3.9	3.71	4.10	20	23	1,900	10	1.0
MMSZ5229B	G4	4.3	4.09	4.52	20	22	2,000	5.0	1.0
MMSZ5230B	G5	4.7	4.47	4.94	20	19	1,900	5.0	2.0
MMSZ5231B	E1	5.1	4.85	5.36	20	17	1,600	5.0	2.0
MMSZ5232B	E2	5.6	5.32	5.88	20	11	1,600	5.0	3.0
MMSZ5233B	E3	6.0	5.70	6.30	20	7	1,600	5.0	3.5
MMSZ5234B	E4	6.2	5.89	6.51	20	7	1,000	5.0	4.0
MMSZ5235B	E5	6.8	6.46	7.14	20	5	750	3.0	5.0
MMSZ5236B	F1	7.5	7.13	7.88	20	6	500	3.0	6.0
MMSZ5237B	F2	8.2	7.79	8.61	20	8	500	3.0	6.5
MMSZ5238B	F3	8.7	8.27	9.14	20	8	600	3.0	6.5
MMSZ5239B	F4	9.1	8.65	9.56	20	10	600	3.0	7.0
MMSZ5240B	F5	10	9.50	10.50	20	17	600	3.0	8.0
MMSZ5241B	H1	11	10.45	11.55	20	22	600	2.0	8.4
MMSZ5242B	H2	12	11.40	12.60	20	30	600	1.0	9.1
MMSZ5243B	H3	13	12.35	13.65	9.5	13	600	0.5	9.9
MMSZ5245B	H5	15	14.25	15.75	8.5	16	600	0.1	11
MMSZ5246B	J1	16	15.20	16.80	7.8	17	600	0.1	12
MMSZ5248B	J3	18	17.10	18.90	7.0	21	600	0.1	14
MMSZ5250B	J5	20	19.00	21.00	6.2	25	600	0.1	15
MMSZ5251B	K1	22	20.90	23.10	5.6	29	600	0.1	17
MMSZ5252B	K2	24	22.80	25.20	5.2	33	600	0.1	18
MMSZ5254B	K4	27	25.65	28.35	5.0	41	600	0.1	21
MMSZ5255B	K5	28	26.60	29.40	4.5	44	600	0.1	21
MMSZ5256B	M1	30	28.50	31.50	4.2	49	600	0.1	23
MMSZ5257B	M2	33	31.35	34.65	3.8	58	700	0.1	25
MMSZ5258B	M3	36	34.20	37.80	3.4	70	700	0.1	27
MMSZ5259B	M4	39	37.05	40.95	3.2	80	800	0.1	30

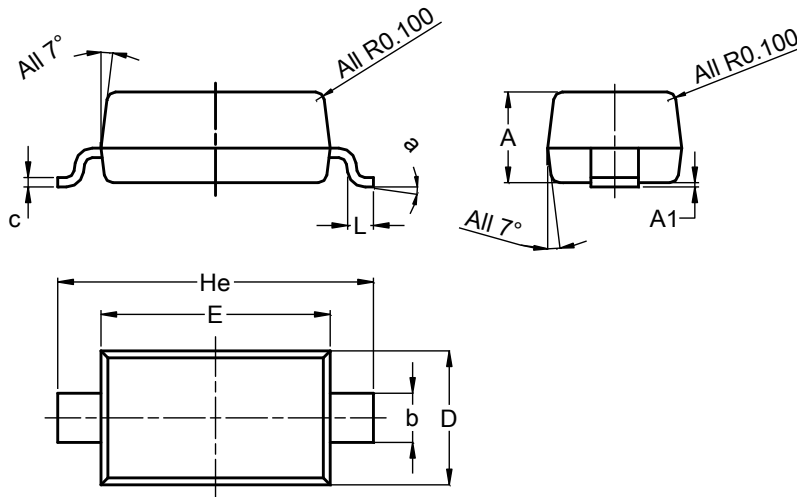
Notes: 4. R_{θJL} = 132°C/W
5. Device mounted on FR-4 PCB with 1 inch copper pad layout.
6. Short duration pulse test used to minimize self-heating effect.



Package Outline Dimensions

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

SOD123

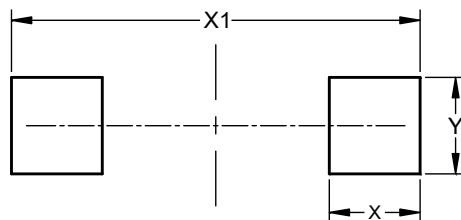


SOD123			
Dim	Min	Max	Typ
A	1.00	1.35	1.05
A1	0.00	0.10	0.05
b	0.52	0.62	0.57
c	0.10	0.15	0.11
D	1.40	1.70	1.55
E	2.55	2.85	2.65
He	3.55	3.85	3.65
L	0.25	0.40	0.30
a	0°	8°	--
All Dimensions in mm			

Suggested Pad Layout

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

SOD123



Dimensions	Value (in mm)
X	0.900
X1	4.050
Y	0.950

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