

Features

- Standard Vz Tolerance is $\pm 2\%$
- Wide Voltage Range Available
- Surface Mount Package
- Halogen Free. "Green" Device (Note 1)
- Moisture Sensitivity Level 1
- Epoxy Meets UL 94 V-0 Flammability Rating
- Lead Free Finish/RoHS Compliant t ("P" Suffix Designates RoHS Compliant. See Ordering Information)

Maximum Ratings

- Operating Junction Temperature Range: -55°C to $+150^{\circ}\text{C}$
- Storage Temperature Range: -55°C to $+150^{\circ}\text{C}$
- Maximum Thermal Resistance : 625°C/W Junction to Ambient

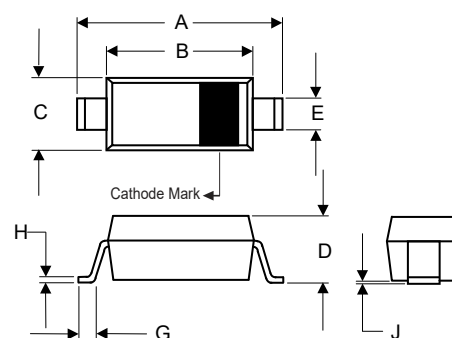
Parameter	Symbol	Rating	Conditions
Power Dissipation	P_D	200mW	Note 2
Peak Forward Surge Current	I_{FSM}	4.0A	Note 3
Maximum Forward Voltage	V_F	0.9V	$I_F=10\text{mA}$

Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

Note: 2. Mounted on FR4 PC Board With Our Suggested Solder Pad Layout
3. Measured on 8.3ms, Single Half Sine-wave or Equivalent Square Wave, Duty Cycle=4 Pulses Per Minute Maximum.

**200 mW
Zener Diode
4.3 to 51 Volts**

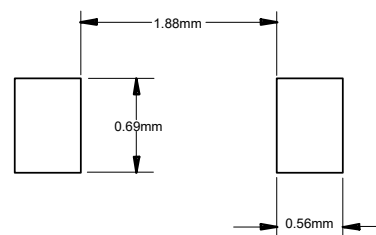
SOD-323



DIMENSIONS

DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	0.090	0.107	2.30	2.70	
B	0.063	0.071	1.60	1.80	
C	0.045	0.053	1.15	1.35	
D	0.031	0.045	0.80	1.15	
E	0.010	0.016	0.25	0.40	
G	0.004	0.018	0.10	0.45	
H	0.004	0.010	0.10	0.25	
J	-----	0.006	-----	0.15	

Suggested Solder Pad Layout



Electrical Characteristics @ 25°C Unless Otherwise Specified

MCC Part Number	Nominal Zener Voltage			Maximum Zener Impedance		Maximum Zener Impedance		Reverse Current		Marking Code
	$V_Z @ I_{ZT}$			Z_{ZT}	I_{ZT}	Z_{ZK}	I_{ZK}	$I_R(\text{Max})$	V_R	
	Min.(V)	Nom(V)	Max.(V)	Ω	mA	Ω	mA	μA	V	
MMXZ5229C	4.21	4.3	4.39	22	20.0	2000	0.25	5.0	1.0	.D4
MMXZ5230C	4.61	4.7	4.79	19	20.0	1900	0.25	5.0	2.0	.D5
MMXZ5231C	5.00	5.1	5.20	17	20.0	1600	0.25	5.0	2.0	.E1
MMXZ5232C	5.49	5.6	5.71	11	20.0	1600	0.25	5.0	3.0	.E2
MMXZ5233C	5.88	6.0	6.12	7	20.0	1600	0.25	5.0	3.5	.E3
MMXZ5234C	6.08	6.2	6.32	7	20.0	1000	0.25	5.0	4.0	.E4
MMXZ5235C	6.66	6.8	6.94	5	20.0	750	0.25	3.0	5.0	.E5
MMXZ5236C	7.35	7.5	7.65	6	20.0	500	0.25	3.0	6.0	.F1
MMXZ5237C	8.04	8.2	8.36	8	20.0	500	0.25	3.0	6.0	.F2
MMXZ5238C	8.53	8.7	8.87	8	20.0	600	0.25	3.0	6.5	.F3
MMXZ5239C	8.92	9.1	9.28	10	20.0	600	0.25	3.0	6.5	.F4
MMXZ5240C	9.80	10	10.20	17	20.0	600	0.25	3.0	8.0	.F5
MMXZ5241C	10.78	11	11.22	22	20.0	600	0.25	2.0	8.4	.H1
MMXZ5242C	11.76	12	12.24	30	20.0	600	0.25	1.0	9.1	.H2
MMXZ5243C	12.74	13	13.26	13	9.5	600	0.25	0.5	9.9	.H3
MMXZ5244C	13.72	14	14.28	15	9.0	600	0.25	0.1	10.5	.H4
MMXZ5245C	14.70	15	15.30	16	8.5	600	0.25	0.1	11.0	.H5
MMXZ5246C	15.68	16	16.32	17	7.8	600	0.25	0.1	12.0	.J1
MMXZ5247C	16.66	17	17.34	19	7.5	600	0.25	0.1	13.0	.J2
MMXZ5248C	17.64	18	18.36	21	7.0	600	0.25	0.1	14.0	.J3
MMXZ5249C	18.62	19	19.38	23	6.6	600	0.25	0.1	14.0	.J4
MMXZ5250C	19.60	20	20.40	25	6.2	600	0.25	0.1	15.0	.J5
MMXZ5251C	21.56	22	22.44	29	5.6	600	0.25	0.1	17.0	.K1
MMXZ5252C	23.52	24	24.48	33	5.2	600	0.25	0.1	18.0	.K2
MMXZ5253C	24.50	25	25.50	35	5.0	600	0.25	0.1	19.0	.K3
MMXZ5254C	26.46	27	27.54	41	5.0	600	0.25	0.1	21.0	.K4
MMXZ5255C	27.44	28	28.56	44	4.5	600	0.25	0.1	21.0	.K5
MMXZ5256C	29.40	30	30.60	49	4.2	600	0.25	0.1	23.0	.M1
MMXZ5257C	32.34	33	33.66	58	3.8	700	0.25	0.1	25.0	.M2
MMXZ5258C	35.28	36	36.72	70	3.4	700	0.25	0.1	27.0	.M3
MMXZ5259C	38.22	39	39.78	80	3.2	800	0.25	0.1	30.0	.M4
MMXZ5260C	42.14	43	43.86	93	3	900	0.25	0.1	33.0	.M5
MMXZ5261C	46.06	47	47.94	105	2.7	1000	0.25	0.1	36.0	.N1
MMXZ5262C	49.98	51	52.02	125	2.5	1100	0.25	0.1	39.0	.N2

Curve Characteristics

Fig. 1 - Power Derating Curve

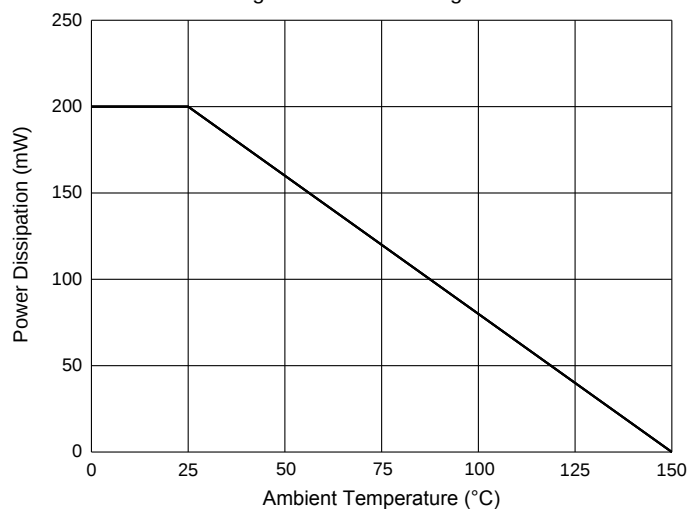


Fig. 2 - Typical Zener Breakdown Characteristics

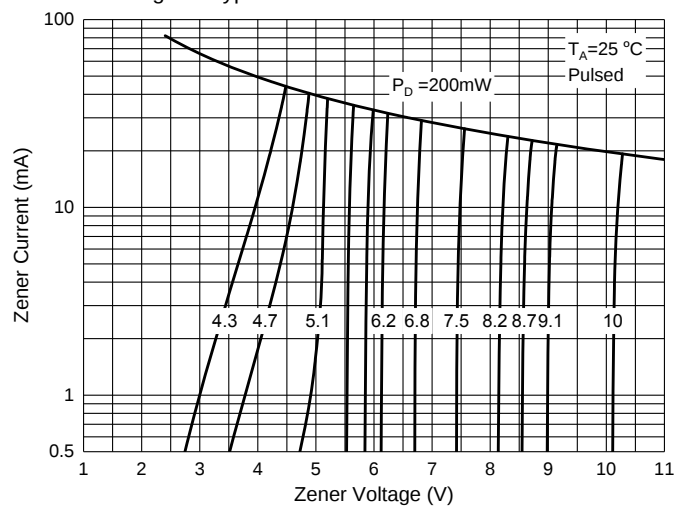
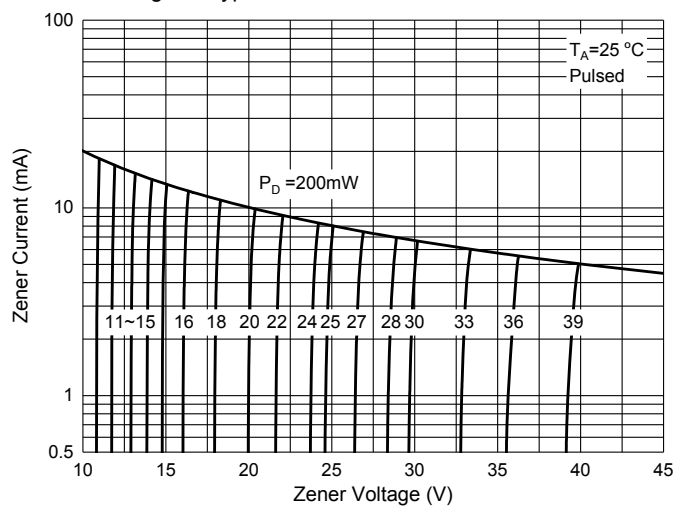


Fig. 3 - Typical Zener Breakdown Characteristics



Ordering Information

Device	Packing
Part Number-TP	Tape&Reel:3Kpcs/Reel

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<u>MMXZ5235C-TP</u>	<u>MMXZ5236C-TP</u>	<u>MMXZ5237C-TP</u>	<u>MMXZ5238C-TP</u>	<u>MMXZ5239C-TP</u>	<u>MMXZ5240C-TP</u>
<u>MMXZ5241C-TP</u>	<u>MMXZ5242C-TP</u>	<u>MMXZ5243C-TP</u>	<u>MMXZ5244C-TP</u>	<u>MMXZ5245C-TP</u>	<u>MMXZ5246C-TP</u>
<u>MMXZ5247C-TP</u>	<u>MMXZ5248C-TP</u>	<u>MMXZ5249C-TP</u>	<u>MMXZ5250C-TP</u>	<u>MMXZ5251C-TP</u>	<u>MMXZ5252C-TP</u>
<u>MMXZ5253C-TP</u>	<u>MMXZ5254C-TP</u>	<u>MMXZ5255C-TP</u>	<u>MMXZ5256C-TP</u>	<u>MMXZ5257C-TP</u>	<u>MMXZ5258C-TP</u>
<u>MMXZ5259C-TP</u>	<u>MMXZ5260C-TP</u>	<u>MMXZ5261C-TP</u>	<u>MMXZ5262C-TP</u>		