



Micro Commercial Components



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MMXZ5229C THRU MMXZ5262C

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

Features

- Halogen free available upon request by adding suffix "-HF"
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Wide Voltage Range Available
- Small Outline Package For Space Savings
- High Temp Soldering: 260°C for 10 Seconds At Terminals
- Surface Mount Package

Maximum Ratings

- Operating Junction Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C
- Maximum Thermal Resistance; 357°C/W Junction To Ambient

Maximum Ratings @ 25°C Unless Otherwise Specified

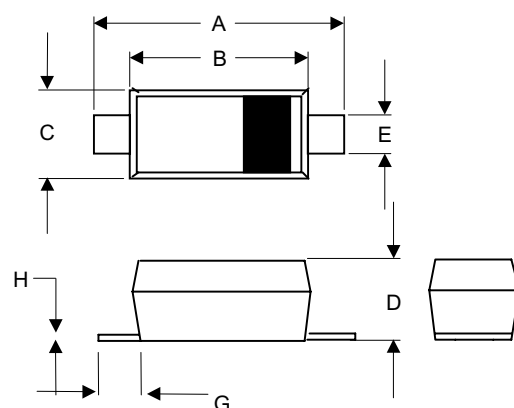
Zener Current	I_F	100	mA
Maximum Forward Voltage	V_F	0.9	V
Power Dissipation (Notes A)	P_d	200	mWatt
Peak Forward Surge Current (Notes B)	I_{FSM}	4.0	Amps

NOTES:

A. Mounted on FR4 PC board with our suggested solder pad layout.

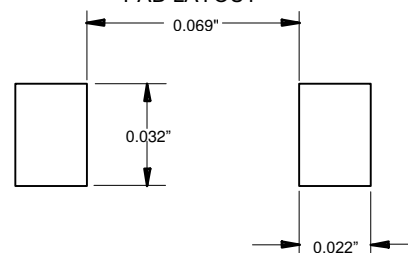
B. Measured on 8.3ms, single half sine-wave or equivalent square wave, duty cycle = 4 pulses per minute maximum.

SOD-323



DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.090	.107	2.30	2.70	
B	.068	.078	1.75	1.95	
C	.045	.053	1.15	1.35	
D	.027	.038	0.70	0.95	
E	.010	.014	0.25	0.35	
G	.012	---	0.30	---	
H	.002	.006	0.05	0.15	

SUGGESTED SOLDER PAD LAYOUT



MMXZ5229C thru MMXZ5262C

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

MMXZ5229C thru MMXZ5262C

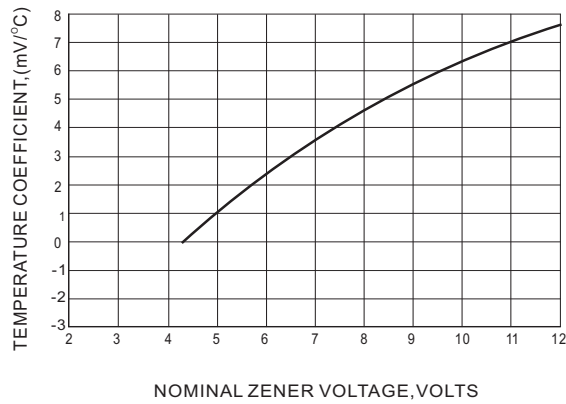


Fig.1 TEMPERATURE COEFFICIENTS

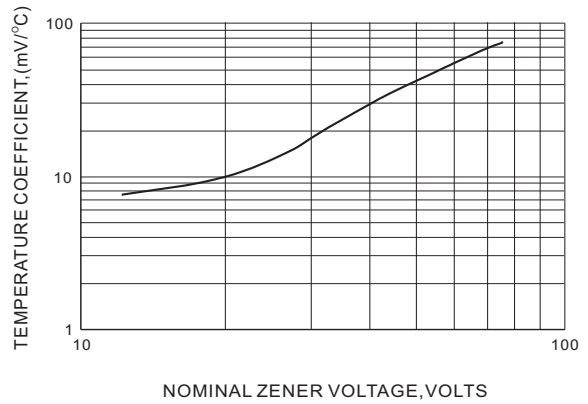


Fig.2 TEMPERATURE COEFFICIENTS

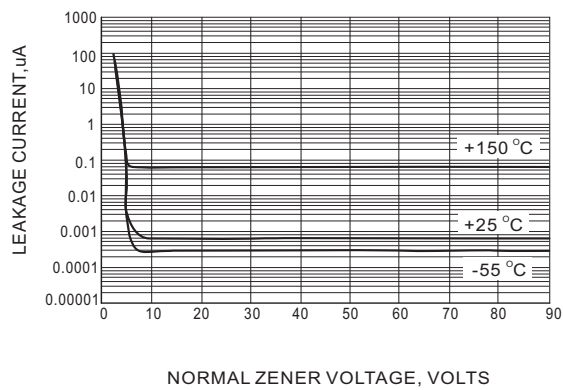


Fig.3 TYPICAL LEAKAGE CURRENT

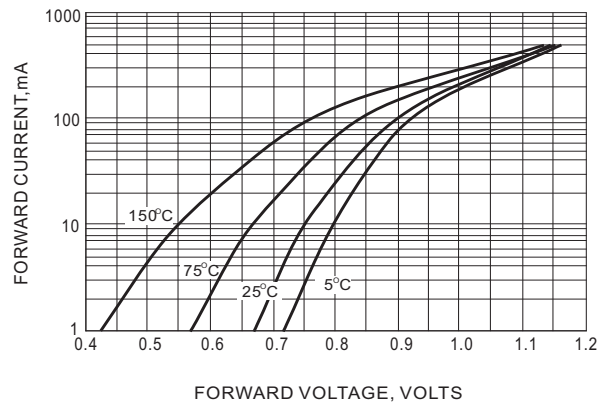


Fig.4 TYPICAL FORWARD VOLTAGE

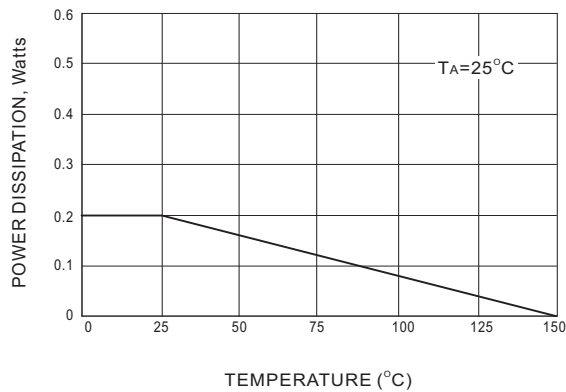


Fig.5 STEADY STATE POWER DERATING

Ordering Information :

Device	Packing
Part Number-TP	Tape&Reel: 5Kpcs/Reel

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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