



Micro Commercial Components



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MMBZ5229C THRU MMBZ5262C

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

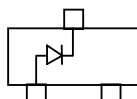
Maximum Ratings @ 25°C Unless Otherwise Specified

Zener Current	I_F	100	mA
Maximum Forward Voltage	V_F	1.2	V
Power Dissipation (Notes A)	P_d	350	mWatt
Peak Forward Surge Current (Notes B)	I_{FSM}	4.0	Amps

NOTES:

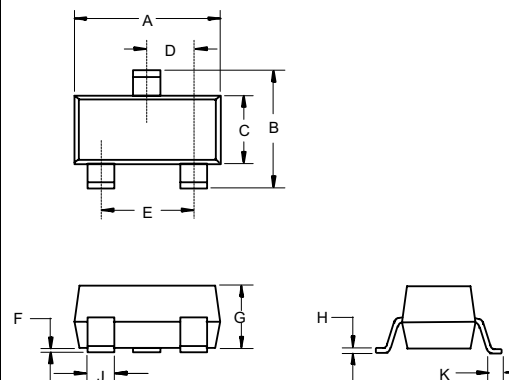
- A. Mounted on FR4 PC board with our suggested solder pad layout.
B. Measured on 8.3ms, single half sine-wave or equivalent square wave, duty cycle = 4 pulses per minute maximum.

*Pin Configuration - Top View



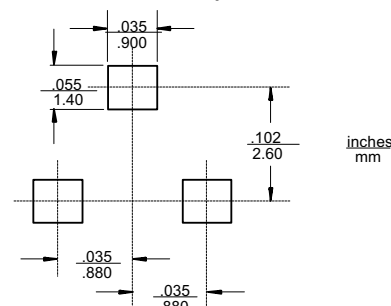
**350 mW
Zener Diode
4.3 to 51 Volts**

SOT-23



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.110	.119	2.80	3.00	
B	.086	.103	2.20	2.60	
C	.047	.056	1.20	1.40	
D	.033	.041	.85	1.05	
E	.066	.083	1.70	2.10	
F	---	.006	---	.15	
G	.035	.044	.90	1.10	
H	.002	.006	.05	.15	
J	.013	.020	.35	.50	
K	.007	---	.20	---	

Suggested Solder Pad Layout



MMBZ5229C thru MMBZ5262C

Part Number	Nominal Zener Voltage			Max. Zener Impedance				Max. Reverse Leakage Current		Marking Code
	V _Z @ I _{ZT}			Z _{zT} @ I _{ZT}		Z _{zK} @ I _{zK}		I _R @ V _R		
	Nom. V	Min. V	Max. V	Ω	mA	Ω	mA	μA	V	
MMBZ5229C	4.3	4.21	4.39	22	20.0	2000	0.25	5.0	1.0	D4
MMBZ5230C	4.7	4.61	4.79	19	20.0	1900	0.25	5.0	2.0	D5
MMBZ5231C	5.1	5.00	5.20	17	20.0	1600	0.25	5.0	2.0	E1
MMBZ5232C	5.6	5.49	5.71	11	20.0	1600	0.25	5.0	3.0	E2
MMBZ5233C	6.0	5.88	6.12	7	20.0	1600	0.25	5.0	3.5	E3
MMBZ5234C	6.2	6.08	6.32	7	20.0	1000	0.25	5.0	4.0	E4
MMBZ5235C	6.8	6.66	6.94	5	20.0	750	0.25	3.0	5.0	E5
MMBZ5236C	7.5	7.35	7.65	6	20.0	500	0.25	3.0	6.0	F1
MMBZ5237C	8.2	8.04	8.36	8	20.0	500	0.25	3.0	6.0	F2
MMBZ5238C	8.7	8.53	8.87	8	20.0	600	0.25	3.0	6.5	F3
MMBZ5239C	9.1	8.92	9.28	10	20.0	600	0.25	3.0	6.5	F4
MMBZ5240C	10	9.80	10.20	17	20.0	600	0.25	3.0	8.0	F5
MMBZ5241C	11	10.78	11.22	22	20.0	600	0.25	2.0	8.4	H1
MMBZ5242C	12	11.76	12.24	30	20.0	600	0.25	1.0	9.1	H2
MMBZ5243C	13	12.74	13.26	13	9.5	600	0.25	0.5	9.9	H3
MMBZ5244C	14	13.72	14.28	15	9.0	600	0.25	0.1	10.5	H4
MMBZ5245C	15	14.70	15.30	16	8.5	600	0.25	0.1	11.0	H5
MMBZ5246C	16	15.68	16.32	17	7.8	600	0.25	0.1	12.0	J1
MMBZ5247C	17	16.66	17.34	19	7.5	600	0.25	0.1	13.0	J2
MMBZ5248C	18	17.64	18.36	21	7.0	600	0.25	0.1	14.0	J3
MMBZ5249C	19	18.62	19.38	23	6.6	600	0.25	0.1	14.0	J4
MMBZ5250C	20	19.60	20.40	25	6.2	600	0.25	0.1	15.0	J5
MMBZ5251C	22	21.56	22.44	29	5.6	600	0.25	0.1	17.0	K1
MMBZ5252C	24	23.52	24.48	33	5.2	600	0.25	0.1	18.0	K2
MMBZ5253C	25	24.50	25.50	35	5.0	600	0.25	0.1	19.0	K3
MMBZ5254C	27	26.46	27.54	41	5.0	600	0.25	0.1	21.0	K4
MMBZ5255C	28	27.44	28.56	44	4.5	600	0.25	0.1	21.0	K5
MMBZ5256C	30	29.40	30.60	49	4.2	600	0.25	0.1	23.0	M1
MMBZ5257C	33	32.34	33.66	58	3.8	700	0.25	0.1	25.0	M2
MMBZ5258C	36	35.28	36.72	70	3.4	700	0.25	0.1	27.0	M3
MMBZ5259C	39	38.22	39.78	80	3.2	800	0.25	0.1	30.0	M4
MMBZ5260C	43	42.14	43.86	93	3	900	0.25	0.1	33.0	M5
MMBZ5261C	47	46.06	47.94	105	2.7	1000	0.25	0.1	36.0	N1
MMBZ5262C	51	49.98	52.02	125	2.5	1100	0.25	0.1	39.0	N2

MMBZ5229C thru MMBZ5262C

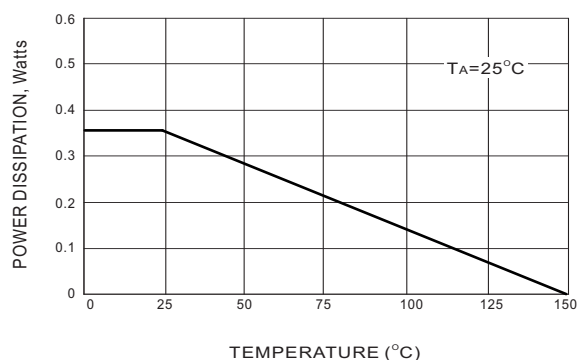


Fig.1 STEADY STATE POWER DERATING

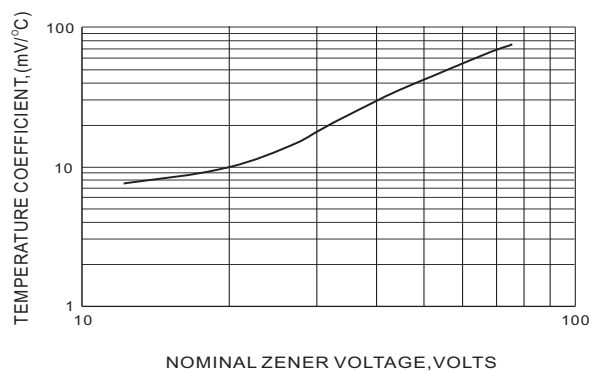


Fig.2 TEMPERATURE COEFFICIENTS

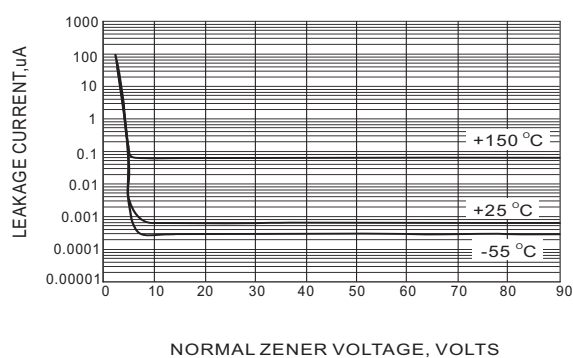


Fig.3 TYPICAL LEAKAGE CURRENT

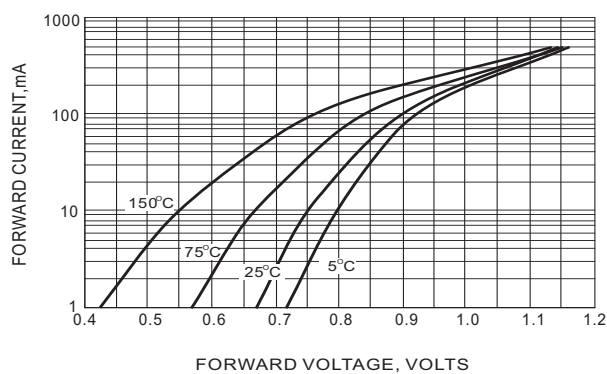


Fig.4 TYPICAL FORWARD VOLTAGE

Ordering Information :

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

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

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