

MMBZ529C~MMBZ5262C

ZENER DIODES

VOLTAGE 4.3 to 51 Volt **POWER** 0.35 Watt

SOT-23

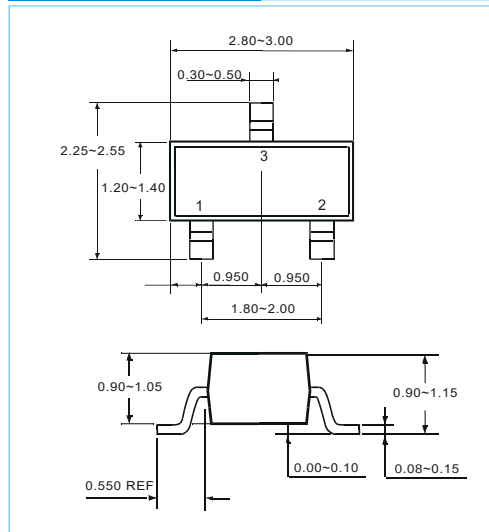
Unit:mm

FEATURES

- Planar Die construction
- 500mW Power Dissipation
- Zener Voltages from 4.3V - 51V
- Ideally Suited for Automated Assembly Processes
- Lead free in compliance with EU RoHS

MECHANICAL DATA

- Case Material: Molded Plastic.
- UL Flammability Classification Rating 94V-0



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

Parameter	Symbol	Value	Units
Peak Pulse Power Dissipation on $T_L=50^{\circ}\text{C}$ (Notes A) Derate above 50°C	P_D	0.35	Watts
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load Notes	I_{FSM}	4	Amps
Operating Junction and Storage Temperature Range	T_J, T_{STG}	-55 to + 150	°C

NOTES :

A.Mounted on 5mm² (0.013mm thick) land areas.

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

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ELECTRICAL CHARACTERISTICS @25°C

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

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RATING AND CHARACTERISTIC CURVES

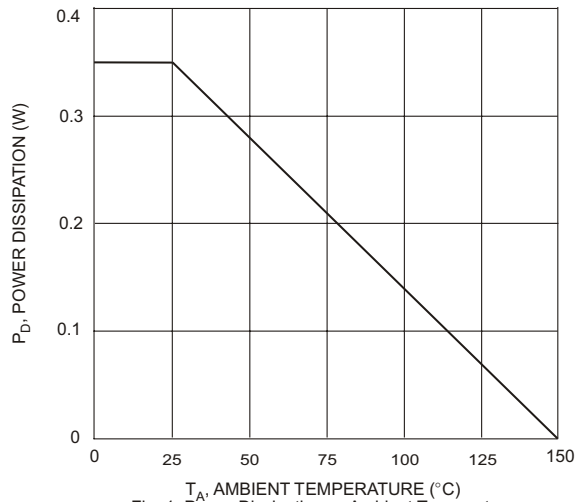


Fig. 1 Power Dissipation vs Ambient Temperature

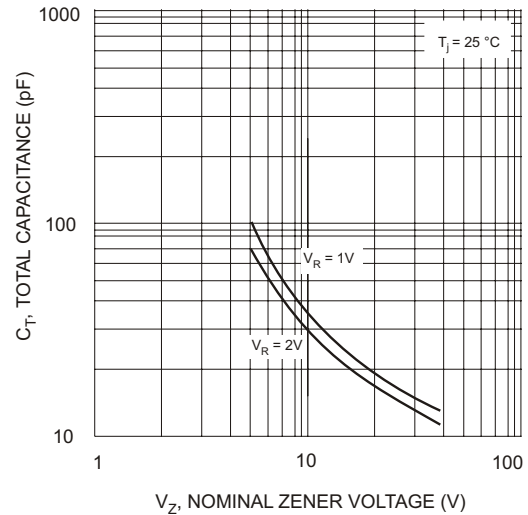


Fig. 2 Total Capacitance vs Nominal Zener Voltage

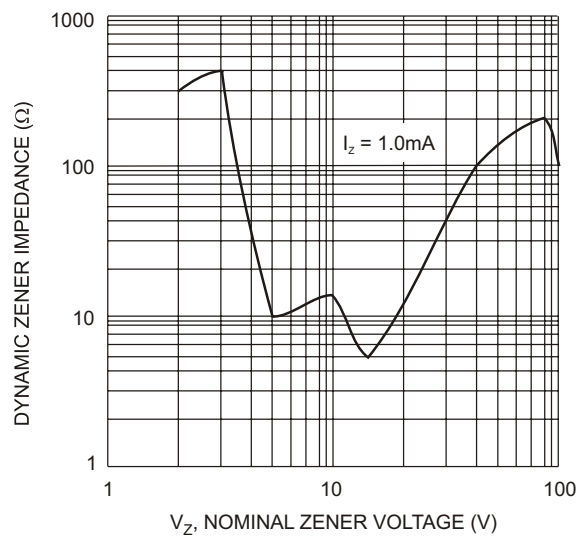


Fig. 3 Zener Voltage vs. Zener Impedance

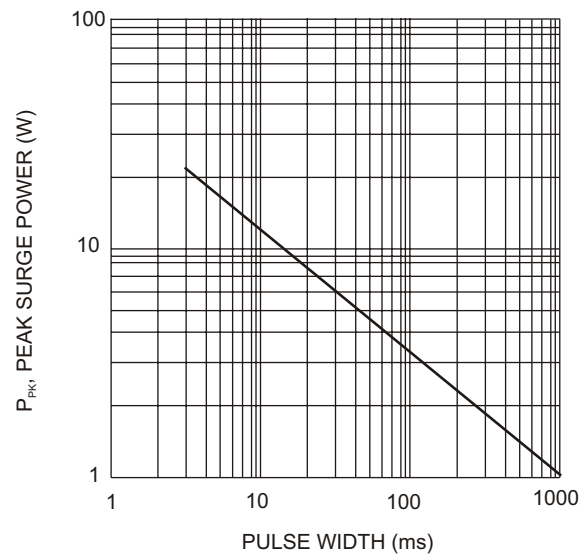


Fig. 4 Maximum Non-repetitive Surge Power

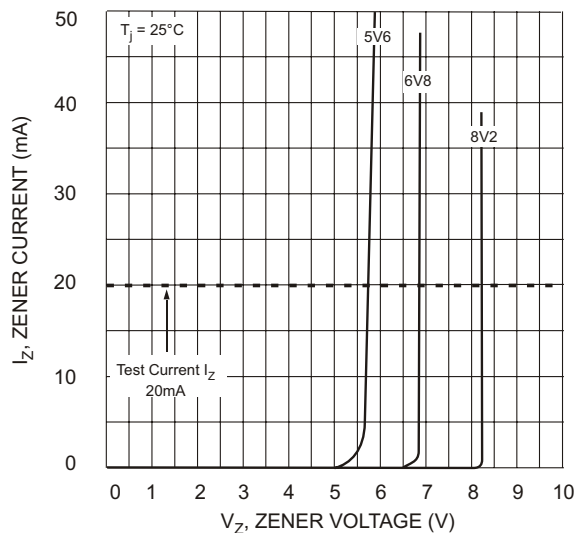


Fig. 5 Zener Breakdown Characteristics

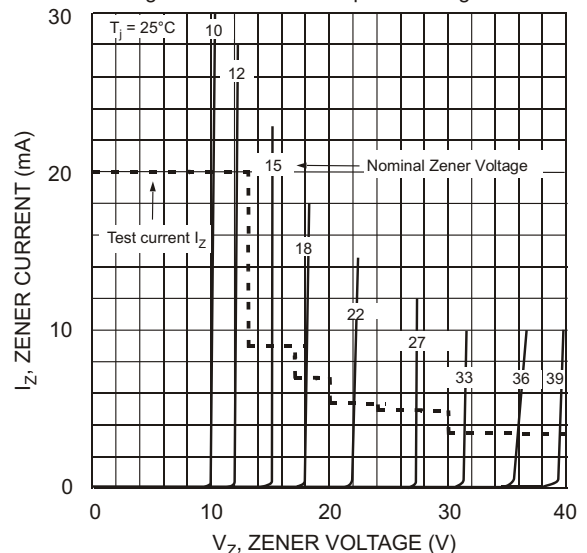


Fig. 6 Zener Breakdown Characteristics

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ORDER INFORMATION

- Packing information

Part Number	Case	Reel Size	QUANTITY
MMBZ5229C~MMBZ5262C	SOT-23	7 Inch	3000