MMBZ5221BV~MMBZ5262BV

SURFACE MOUNT SILICON ZENER DIODES

VOLTAGE 2.4 to 51 Volt **POWER** 200 mWatt

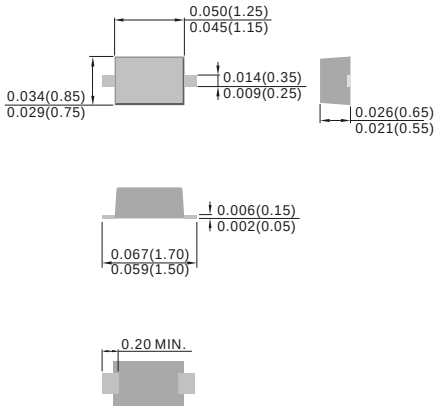
FEATURES

- Planar Die construction
- 200mW Power Dissipation
- Zener Voltages from 2.4V~75V
- Ideally Suited for Automated Assembly Processes
- Lead free in compliance with EU RoHS 2011/65/EU directive
- Green molding compound as per IEC61249 Std. . (Halogen Free)

MECHANICAL DATA

- Case: SOD-523, Plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- Sandard packaging : 8mm tape
- Approx. Weight : 0.00005 ounces, 0.0014 grams.

SOD-523 Unit : inch(mm)



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Parameter	Symbol	Value	Units
Maximum Power Dissipation (Notes A) at 25°C	P_D	200	mW
Operating Junction and StorageTemperature Range	T_J	-55 to +150	°C

NOTES:

A. Mounted on 5.0mm²(.013mm thick) land areas.

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

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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	
200 mWatts Zener Diodes										
MMBZ5221BV	2.4	2.28	2.52	30	20	1200	0.25	100	1	C1
MMBZ5222BV	2.5	2.38	2.63	30	20	1250	0.25	100	1	C2
MMBZ5223BV	2.7	2.57	2.84	30	20	1300	0.25	75	1	C3
MMBZ5225BV	3	2.85	3.15	30	20	1600	0.25	50	1	C5
MMBZ5226BV	3.3	3.14	3.47	28	20	1600	0.25	25	1	D1
MMBZ5227BV	3.6	3.42	3.78	24	20	1700	0.25	15	1	D2
MMBZ5228BV	3.9	3.71	4.1	23	20	1900	0.25	10	1	D3
MMBZ5229BV	4.3	4.09	4.52	22	20	2000	0.25	5	1	D4
MMBZ5230BV	4.7	4.47	4.94	19	20	1900	0.25	5	2	D5
MMBZ5231BV	5.1	4.85	5.36	17	20	1600	0.25	5	2	E1
MMBZ5232BV	5.6	5.32	5.88	11	20	1600	0.25	5	3	E2
MMBZ5234BV	6.2	5.89	6.51	7	20	1000	0.25	5	4	E4
MMBZ5235BV	6.8	6.46	7.14	5	20	750	0.25	3	5	E5
MMBZ5236BV	7.5	7.13	7.88	6	20	500	0.25	3	6	F1
MMBZ5237BV	8.2	7.79	8.61	8	20	500	0.25	3	6.5	F2
MMBZ5238BV	8.7	8.27	9.14	8	20	600	0.25	3	6.5	F3
MMBZ5239BV	9.1	8.65	9.56	10	20	600	0.25	3	7	F4
MMBZ5240BV	10	9.5	10.5	17	20	600	0.25	3	8	F5
MMBZ5241BV	11	10.45	11.55	22	20	600	0.25	2	8.4	H1
MMBZ5242BV	12	11.4	12.6	30	20	600	0.25	1	9.1	H2
MMBZ5243BV	13	12.35	13.65	13	9.5	600	0.25	0.5	9.9	H3
MMBZ5244BV	14	13.3	14.7	15	9	600	0.25	0.1	10.5	H4
MMBZ5245BV	15	14.25	15.75	16	8.5	600	0.25	0.1	11	H5
MMBZ5246BV	16	15.2	16.8	17	7.8	600	0.25	0.1	12	J1
MMBZ5247BV	17	16.15	17.85	19	7.5	600	0.25	0.1	13	J2
MMBZ5248BV	18	17.1	18.9	21	7	600	0.25	0.1	14	J3
MMBZ5250BV	20	19	21	25	6.2	600	0.25	0.1	15	J5
MMBZ5251BV	22	20.9	23.1	29	5.6	600	0.25	0.1	17	K1
MMBZ5252BV	24	22.8	25.2	33	5.2	600	0.25	0.1	18	K2
MMBZ5254BV	27	25.65	28.35	41	5	600	0.25	0.1	21	K4
MMBZ5255BV	28	26.6	29.4	44	4.5	600	0.25	0.1	21	K5
MMBZ5256BV	30	28.5	31.5	49	4.2	600	0.25	0.1	23	M1
MMBZ5257BV	33	31.35	34.65	58	3.8	700	0.25	0.1	25	M2
MMBZ5258BV	36	34.2	37.8	70	3.4	700	0.25	0.1	27	M3
MMBZ5259BV	39	37.05	40.95	80	3.2	800	0.25	0.1	30	M4
MMBZ5260BV	43	40.85	45.15	93	3	900	0.25	0.1	33	M5
MMBZ5261BV	47	44.65	49.35	105	2.7	1000	0.25	0.1	36	N1
MMBZ5262BV	51	48.45	53.55	125	2.5	1100	0.25	0.1	39	N2

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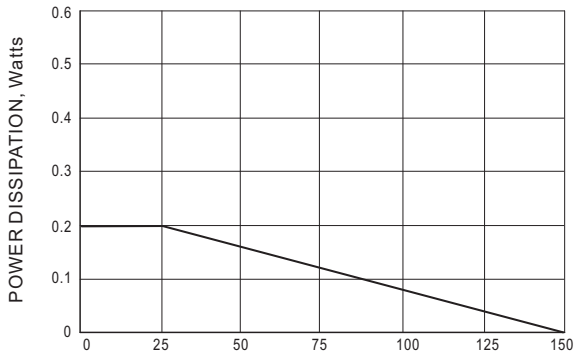


Fig.1 STEADY STATE POWER DERATING

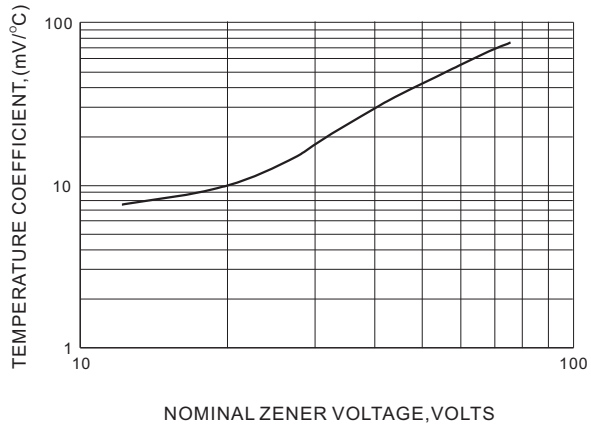


Fig.2 TEMPERATURE COEFFICENTS

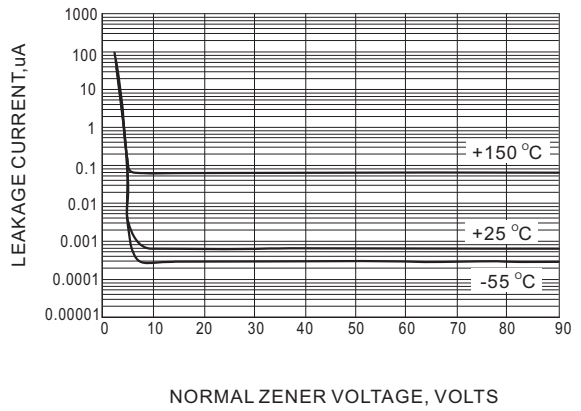


Fig.3 TYPICAL LEAKAGE CURRENT

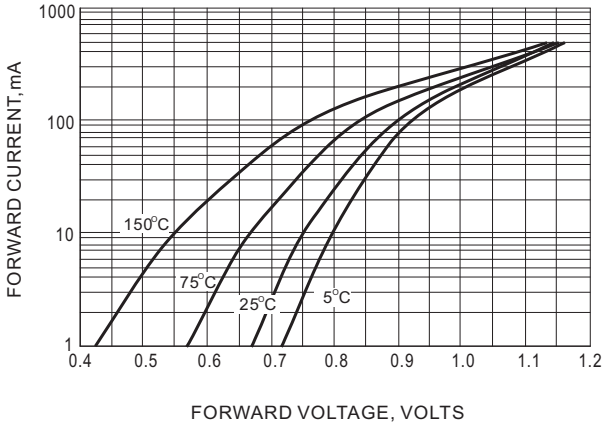
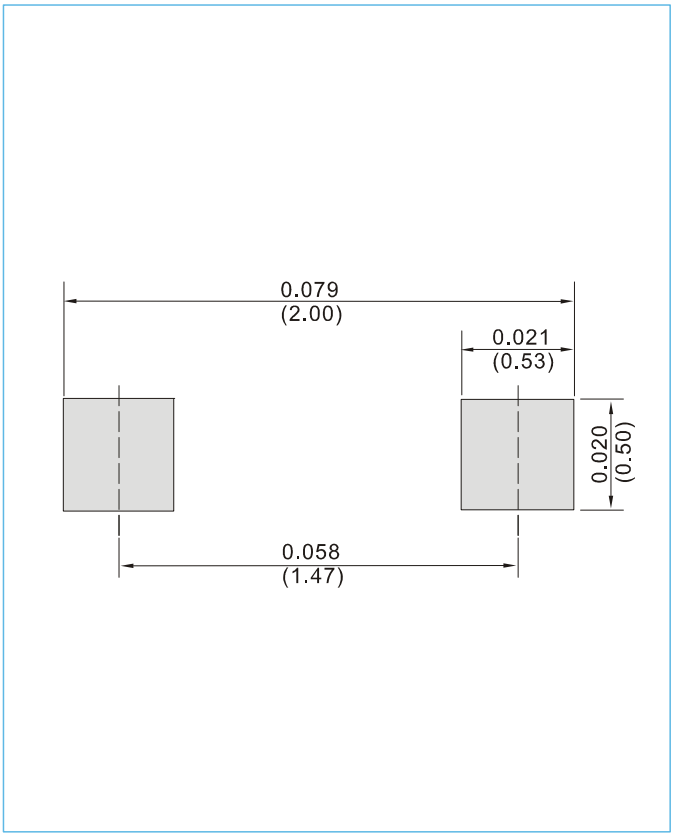


Fig.4 TYPICAL FORWARD VOLTAGE

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MOUNTING PAD LAYOUT

SOD-523 Unit : inch(mm)



ORDER INFORMATION

- Packing information

  T/R - 12K per 13" plastic Reel

  T/R - 5K per 7" plastic Reel

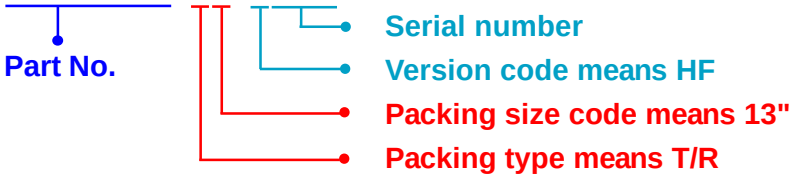
MMBZ5221BV~MMBZ5262BV

Part No_packing code_Version

MMBZ5221BV_R1_00001
MMBZ5221BV_R2_00001

For example :

RB500V-40_R2_00001



Packing Code XX				Version Code XXXXX		
Packing type	1st Code	Packing size code	2nd Code	HF or RoHS	1st Code	2nd~5th Code
Tape and Ammunition Box (T/B)	A	N/A	0	HF	0	serial number
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number
Bulk Packing (B/P)	B	13"	2			
Tube Packing (T/P)	T	26mm	X			
Tape and Reel (Right Oriented) (TRR)	S	52mm	Y			
Tape and Reel (Left Oriented) (TRL)	L	PANASERT T/B CATHODE UP (PBCU)	U			
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D			

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BZT52-B27S PJSD24TS-AU_R1_000A1 BZT52B12S_R1_00001 MMSZ5242B_R1_00001
MMSZ5245AS_R1_00001 PSDH6060CCS1_T0_00001 S100_R1_00001 S1G_R2_00001
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