MMBZ5221BV~MMBZ5267BV

SURFACE MOUNT SILICON ZENER DIODES

VOLTAGE 2.4 to 75 Volts **POWER** 200 mWatts

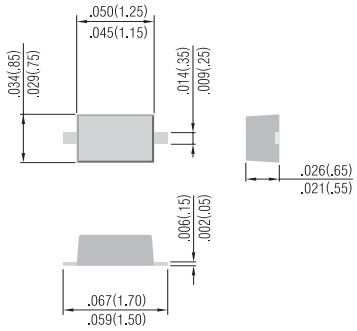
FEATURES

- Planar Die construction
- 200mW Power Dissipation
- Zener Voltages from 2.4V~75V
- Ideally Suited for Automated Assembly Processes
- Pb free product : 99% Sn above can meet RoHS environment substance request

MECHANICAL DATA

- Case: SOD-523, Plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- Sandard packaging : 8mm tape
- Weigh : approximately 0.002gram

SOD-523 Unit: inch (mm)



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Parameter	Symbol	Value	Units
Power Dissipation @ T_A= 25°C(Note A)	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	Package
	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		
MMBZ5221BV	2.4	2.28	2.52	30	20.0	1200	0.25	100	1.0	C1	SOD-523
MMBZ5222BV	2.5	2.38	2.63	30	20.0	1250	0.25	100	1.0	C2	SOD-523
MMBZ5223BV	2.7	2.57	2.84	30	20.0	1300	0.25	75	1.0	C3	SOD-523
MMBZ5225BV	3.0	2.85	3.15	30	20.0	1600	0.25	50	1.0	C5	SOD-523
MMBZ5226BV	3.3	3.14	3.47	28	20.0	1600	0.25	25	1.0	D1	SOD-523
MMBZ5227BV	3.6	3.42	3.78	24	20.0	1700	0.25	15	1.0	D2	SOD-523
MMBZ5228BV	3.9	3.71	4.10	23	20.0	1900	0.25	10	1.0	D3	SOD-523
MMBZ5229BV	4.3	4.09	4.52	22	20.0	2000	0.25	5.0	1.0	D4	SOD-523
MMBZ5230BV	4.7	4.47	4.94	19	20.0	1900	0.25	5.0	2.0	D5	SOD-523
MMBZ5231BV	5.1	4.85	5.36	17	20.0	1600	0.25	5.0	2.0	E1	SOD-523
MMBZ5232BV	5.6	5.32	5.88	11	20.0	1600	0.25	5.0	3.0	E2	SOD-523
MMBZ5233BV	6.0	5.70	6.30	7	20.0	1000	0.25	5.0	3.5	E3	SOD-523
MMBZ5234BV	6.2	5.89	6.51	7	20.0	1000	0.25	5.0	4.0	E4	SOD-523
MMBZ5235BV	6.8	6.46	7.14	5	20.0	750	0.25	3.0	5.0	E5	SOD-523
MMBZ5236BV	7.5	7.13	7.88	6	20.0	500	0.25	3.0	6.0	F1	SOD-523
MMBZ5237BV	8.2	7.79	8.61	8	20.0	500	0.25	3.0	6.5	F2	SOD-523
MMBZ5238BV	8.7	8.27	9.14	8	20.0	600	0.25	3.0	6.5	F3	SOD-523
MMBZ5239BV	9.1	8.65	9.56	10	20.0	600	0.25	3.0	7.0	F4	SOD-523
MMBZ5240BV	10	9.50	10.50	17	20.0	600	0.25	3.0	8.0	F5	SOD-523
MMBZ5241BV	11	10.45	11.55	22	20.0	600	0.25	3.0	8.4	H1	SOD-523
MMBZ5242BV	12	11.40	12.60	30	20.0	600	0.25	2.0	9.1	H2	SOD-523
MMBZ5243BV	13	12.35	13.65	13	9.5	600	0.25	1.0	9.9	H3	SOD-523
MMBZ5244BV	14	13.30	14.70	15	9.0	600	0.25	0.5	10.5	H4	SOD-523
MMBZ5245BV	15	14.25	15.75	16	8.5	600	0.25	0.5	11.0	H5	SOD-523
MMBZ5246BV	16	15.20	16.80	17	7.8	600	0.25	0.1	12.0	J1	SOD-523
MMBZ5247BV	17	16.15	17.85	19	7.4	600	0.25	0.1	13.0	J2	SOD-523
MMBZ5248BV	18	17.10	18.90	21	7.0	600	0.25	0.1	14.0	J3	SOD-523
MMBZ5249BV	19	18.05	19.95	23	6.6	600	0.25	0.1	14.0	J4	SOD-523
MMBZ5250BV	20	19.00	21.00	25	6.2	600	0.25	0.1	15.0	J5	SOD-523
MMBZ5251BV	22	20.90	23.10	29	5.6	600	0.25	0.1	17.0	K1	SOD-523
MMBZ5252BV	24	22.80	25.20	33	5.2	600	0.25	0.1	18.0	K2	SOD-523
MMBZ5253BV	25	23.75	26.25	35	5.0	600	0.25	0.1	19.0	K3	SOD-523
MMBZ5254BV	27	25.65	28.35	41	5.0	600	0.25	0.1	21.0	K4	SOD-523
MMBZ5255BV	28	26.60	29.40	44	4.5	600	0.25	0.1	21.0	K5	SOD-523
MMBZ5256BV	30	28.50	31.50	49	4.2	600	0.25	0.1	23.0	M1	SOD-523
MMBZ5257BV	33	31.35	34.65	58	3.8	700	0.25	0.1	25.0	M2	SOD-523
MMBZ5258BV	36	34.20	37.80	70	3.4	700	0.25	0.1	27.0	M3	SOD-523
MMBZ5259BV	39	37.05	40.95	80	3.2	800	0.25	0.1	30.0	M4	SOD-523
MMBZ5260BV	43	40.85	45.15	93	3.0	900	0.25	0.1	33.0	M5	SOD-523
MMBZ5261BV	47	44.65	49.35	105	2.7	1000	0.25	0.1	36.0	N1	SOD-523
MMBZ5262BV	51	48.45	53.55	125	2.5	1100	0.25	0.1	39.0	N2	SOD-523
MMBZ5263BV	56	53.20	58.80	150	2.2	1300	0.25	0.1	43	N3	SOD-523
MMBZ5264BV	60	57.00	63.00	170	2.1	1400	0.25	0.1	46	N4	SOD-523
MMBZ5265BV	62	58.90	65.10	185	2.0	1500	0.25	0.1	47	N5	SOD-523
MMBZ5266BV	68	64.60	71.40	230	1.8	1600	0.25	0.1	52	P1	SOD-523
MMBZ5267BV	75	71.25	78.75	270	1.7	1400	0.25	0.1	56	P2	SOD-523

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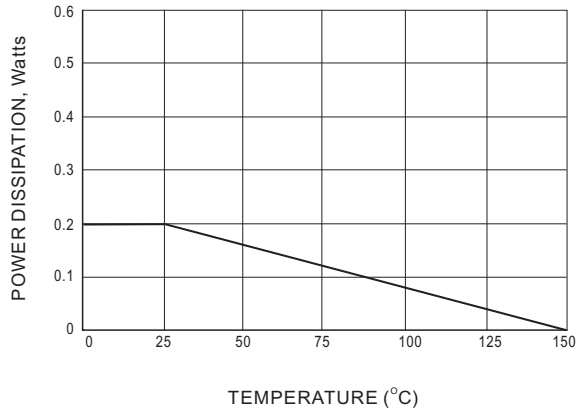

Fig.1 STEADY STATE POWER DERATING

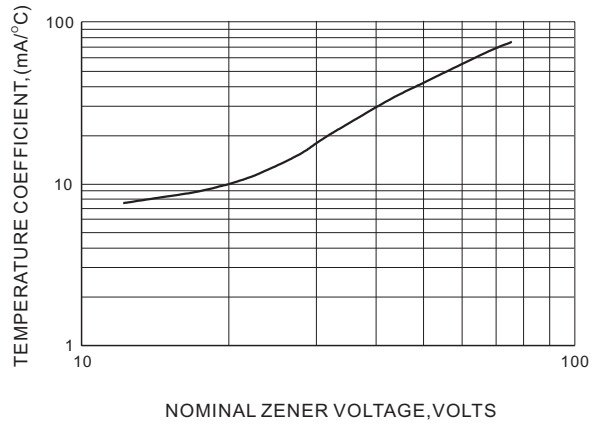

Fig.2 TEMPERATURE COEFFICENTS

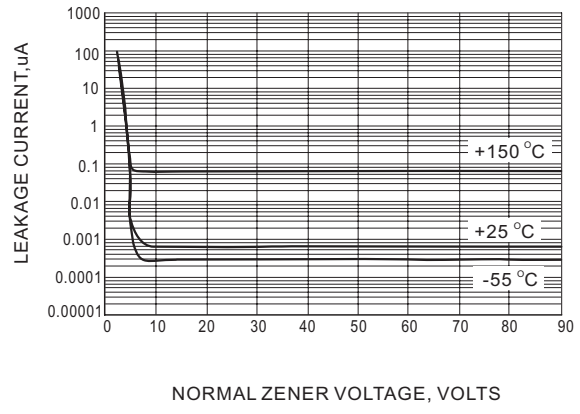

Fig.3 TYPICAL LEAKAGE CURRENT

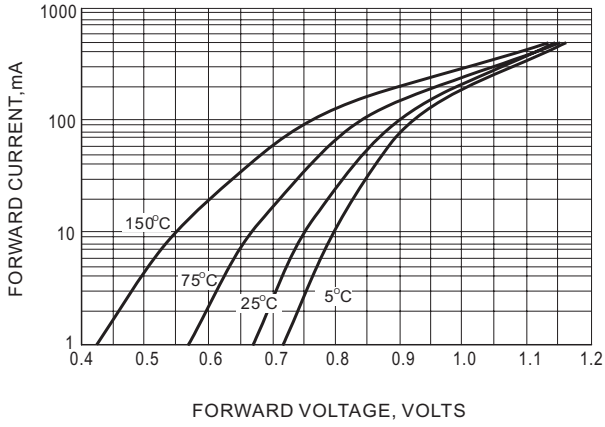

Fig.4 TYPICAL FORWARD VOLTAGE

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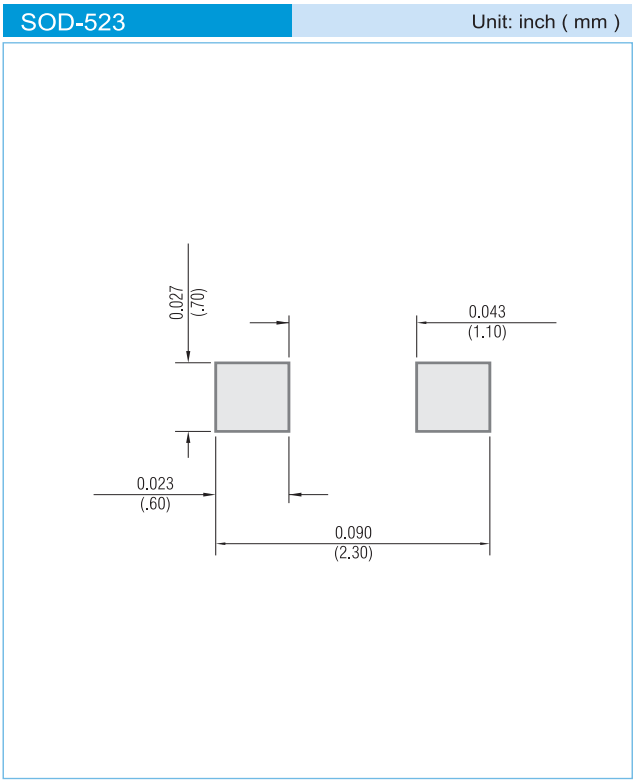
MOUNTING PAD LAYOUT

SOD-523 Unit: inch (mm)



ORDER INFORMATION

- Packing information

  T/R - 12K per 13" plastic Reel

  T/R - 5K per 7" plastic Reel

LEGAL STATEMENT