MMBZ5221BV THRU MMBZ5267BV

Surface Mount Silicon Zener Diodes

Voltage 2.4 to 75 volts Power 200 mWatts

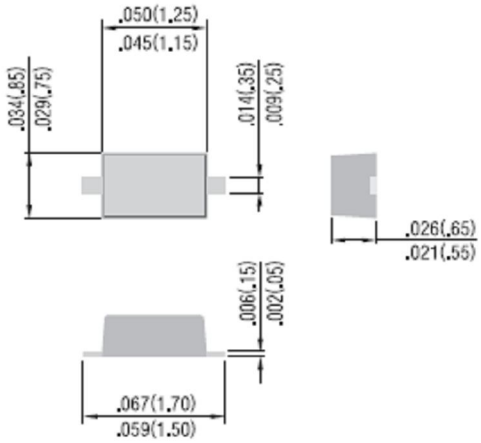
Features

- Planar Die construction
- 200mW Power Dissipation
- 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
- Approx. Weight: 0.002 gram

SOD-523



Unit: inch(mm)

MAXIMUM RATINGS

Parameter	Symbol	Value	Units
Power Dissipation at 25 °C	P_D	200	mW
Operating Junction and Storage Temperature Range	T_J	-55 to +150	°C

Notes: A. Mounted on 5.0mm^2(.013mm thick)land areas
B. Measured on 8.3ms, single half sine-wave or equivalent square wave, duty cycle=4 pulses per minute maximum

Part Number	Nominal Zener Voltage			Max. Zener Impedance				Max Reverse Leakage Current		Marking	Package
	V_Z @ I_{ZT}			Z_{ZT} @ I_{ZT}		Z_{ZK} @ I_{ZK}		I_R @ V_R		Code	
	Nom. V	Min. V	Max. V	Ω	mA	Ω	mA	μA	V		
MMBZ5221BV	2.4	2.28	2.52	30	20	1200	0.25	100	1	C1	SOD-523
MMBZ5222BV	2.5	2.38	2.63	30	20	1250	0.25	100	1	C2	SOD-523
MMBZ5223BV	2.7	2.57	2.84	30	20	1300	0.25	75	1	C3	SOD-523
MMBZ5225BV	3	2.85	3.15	30	20	1600	0.25	50	1	C5	SOD-523
MMBZ5226BV	3.3	3.14	3.47	28	20	1600	0.25	25	1	D1	SOD-523
MMBZ5227BV	3.6	3.42	3.78	24	20	1700	0.25	15	1	D2	SOD-523
MMBZ5228BV	3.9	3.71	4.1	23	20	1900	0.25	10	1	D3	SOD-523
MMBZ5229BV	4.3	4.09	4.52	22	20	2000	0.25	5	1	D4	SOD-523
MMBZ5230BV	4.7	4.47	4.94	19	20	1900	0.25	5	2	D5	SOD-523
MMBZ5231BV	5.1	4.85	5.36	17	20	1600	0.25	5	2	E1	SOD-523
MMBZ5232BV	5.6	5.32	5.88	11	20	1600	0.25	5	3	E2	SOD-523
MMBZ5233BV	6	5.7	6.3	7	20	1000	0.25	5	3.5	E3	SOD-523
MMBZ5234BV	6.2	5.89	6.51	7	20	1000	0.25	5	4	E4	SOD-523
MMBZ5235BV	6.8	6.46	7.14	5	20	750	0.25	3	5	E5	SOD-523
MMBZ5236BV	7.5	7.13	7.88	6	20	500	0.25	3	6	F1	SOD-523
MMBZ5237BV	8.2	7.79	8.61	8	20	500	0.25	3	6.5	F2	SOD-523
MMBZ5238BV	8.7	8.27	9.14	8	20	600	0.25	3	6.5	F3	SOD-523
MMBZ5239BV	9.1	8.65	9.56	10	20	600	0.25	3	7	F4	SOD-523
MMBZ5240BV	10	9.5	10.5	17	20	600	0.25	3	8	F5	SOD-523
MMBZ5241BV	11	10.45	11.55	22	20	600	0.25	3	8.4	H1	SOD-523
MMBZ5242BV	12	11.4	12.6	30	20	600	0.25	2	9.1	H2	SOD-523
MMBZ5243BV	13	12.35	13.65	13	9.5	600	0.25	1	9.9	H3	SOD-523
MMBZ5244BV	14	13.3	14.7	15	9	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	H5	SOD-523
MMBZ5246BV	16	15.2	16.8	17	7.8	600	0.25	0.1	12	J1	SOD-523
MMBZ5247BV	17	16.15	17.85	19	7.4	600	0.25	0.1	13	J2	SOD-523
MMBZ5248BV	18	17.1	18.9	21	7	600	0.25	0.1	14	J3	SOD-523
MMBZ5249BV	19	18.05	19.95	23	6.6	600	0.25	0.1	14	J4	SOD-523
MMBZ5250BV	20	19	21	25	6.2	600	0.25	0.1	15	J5	SOD-523
MMBZ5251BV	22	20.9	23.1	29	5.6	600	0.25	0.1	17	K1	SOD-523
MMBZ5252BV	24	22.8	25.2	33	5.2	600	0.25	0.1	18	K2	SOD-523
MMBZ5253BV	25	23.75	26.25	35	5	600	0.25	0.1	19	K3	SOD-523
MMBZ5254BV	27	25.65	28.35	41	5	600	0.25	0.1	21	K4	SOD-523
MMBZ5255BV	28	26.6	29.4	44	4.5	600	0.25	0.1	21	K5	SOD-523
MMBZ5256BV	30	28.5	31.5	49	4.2	600	0.25	0.1	23	M1	SOD-523
MMBZ5257BV	33	31.35	34.65	58	3.8	700	0.25	0.1	25	M2	SOD-523
MMBZ5258BV	36	34.2	37.8	70	3.4	700	0.25	0.1	27	M3	SOD-523
MMBZ5259BV	39	37.05	40.95	80	3.2	800	0.25	0.1	30	M4	SOD-523
MMBZ5260BV	43	40.85	45.15	93	3	900	0.25	0.1	33	M5	SOD-523
MMBZ5261BV	47	44.65	49.35	105	2.7	1000	0.25	0.1	36	N1	SOD-523
MMBZ5262BV	51	48.45	53.55	125	2.5	1100	0.25	0.1	39	N2	SOD-523
MMBZ5263BV	56	53.2	58.8	150	2.2	1300	0.25	0.1	43	N3	SOD-523
MMBZ5264BV	60	57	63	170	2.1	1400	0.25	0.1	46	N4	SOD-523
MMBZ5265BV	62	58.9	65.1	185	2	1500	0.25	0.1	47	N5	SOD-523
MMBZ5266BV	68	64.6	71.4	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

RATING AND CHARACTERISTIC CURVES

Fig1. Steady State Power Derating

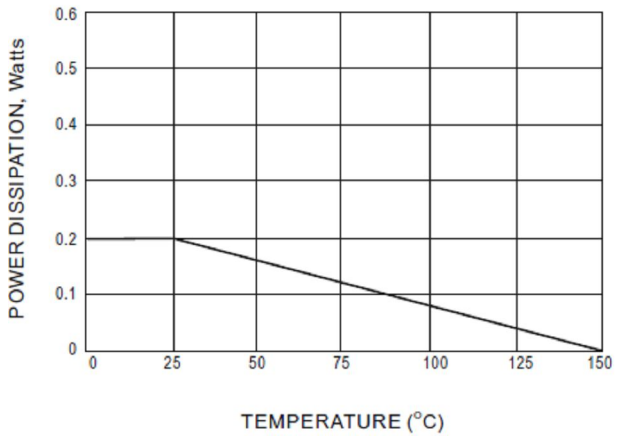


Fig2. Temperature Coefficients

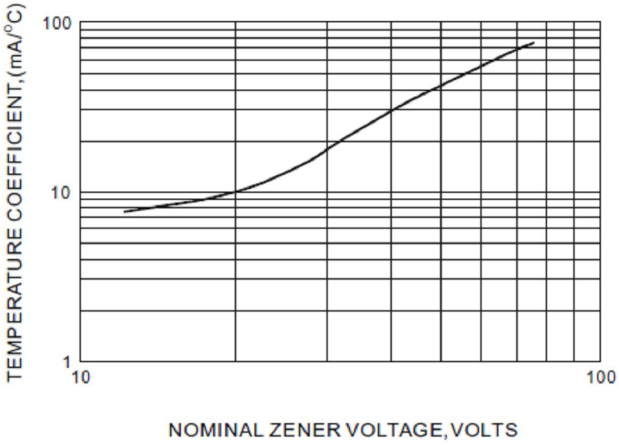


Fig3. Typical Leakage Current

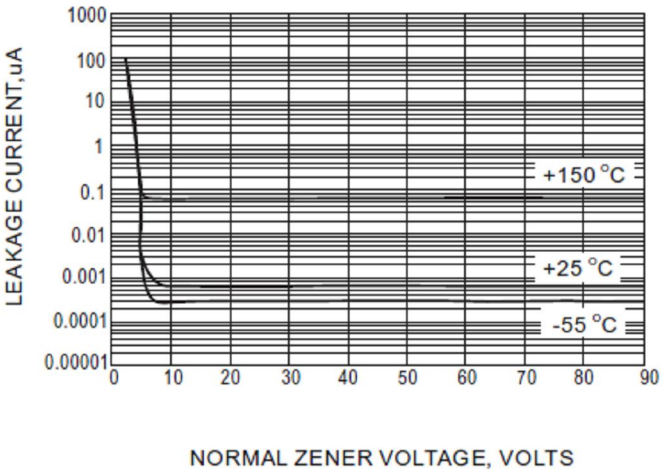


Fig4. Typical Forward Voltage