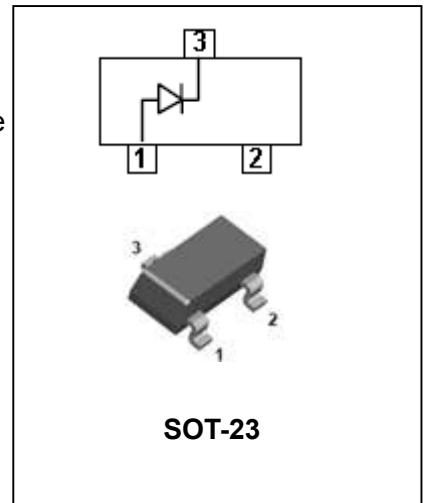


Surface mount zener diode

MMBZ5229A-MMBZ5262A

FEATURES

- Planar die construction.
- 350mW power dissipation.
- Ideally Suited for Automated Assembly Processes.
- Pb free product : 99% Sn above can meet RoHS environment substance request.



APPLICATIONS

- Zener diode.
- Ultra-small surface mount package.

ORDERING INFORMATION

Type No.	Marking	Package Code
MMBZ5229A-MMBZ5262A□	See table 2	SOT-23

- : none is for Lead Free package;
“G” is for Halogen Free package.

MAXIMUM RATING @ Ta=25°C unless otherwise specified

Characteristic	Symbol	Value	Unit
Power Dissipation	P_d	350	mW
Zener Current	I_F	100	mA
Maximum Forward Voltage	V_F	1.2	V
Maximum Thermal Resistance	$R_{\theta JA}$	357	°C/W
Operating Junction and Storage Temperature Range	T_j, T_{stg}	-50 to +150	°C

Surface mount zener diode

MMBZ5229A-MMBZ5262A

ELECTRICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

Type Number	Type Code	Zener Voltage Range			Test Current	Maximum Zener Impedance		Maximum Reverse Leakage Current	
		V _Z @I _{ZT}				I _{ZT}	Z _{ZT} @I _{ZT}	Z _{ZK} @I _{ZK} =0.25mA	I _R
		Nom(V)	Min(V)	Max(V)	mA	Ω		μA	V
MMBZ5229A	D4.	4.3	4.21	4.39	20	22	2000	5.0	1.0
MMBZ5230A	D5.	4.7	4.61	4.79	20	19	1900	5.0	2.0
MMBZ5231A	E1.	5.1	5.00	5.20	20	17	1600	5.0	2.0
MMBZ5232A	E2.	5.6	5.49	5.71	20	11	1600	5.0	3.0
MMBZ5234A	E4.	6.2	6.08	6.32	20	7	1000	5.0	4.0
MMBZ5235A	E5.	6.8	6.66	6.94	20	5	750	3.0	5.0
MMBZ5236A	F1.	7.5	7.35	7.65	20	6	500	3.0	6.0
MMBZ5237A	F2.	8.2	8.04	8.36	20	8	500	3.0	6.0
MMBZ5239A	F4.	9.1	8.92	9.28	20	10	600	3.0	6.5
MMBZ5240A	F5.	10	9.80	10.20	20	17	600	3.0	8.0
MMBZ5241A	H1.	11	10.78	11.22	20	22	600	2.0	8.4
MMBZ5242A	H2.	12	11.76	12.24	20	30	600	1.0	9.1
MMBZ5243A	H3.	13	12.74	13.26	9.5	13	600	0.5	9.9
MMBZ5245A	H5.	15	14.70	15.30	8.5	16	600	0.1	11
MMBZ5246A	J1.	16	15.68	16.32	7.8	17	600	0.1	12
MMBZ5247A	J2.	17	16.66	17.34	7.5	19	600	0.1	13
MMBZ5248A	J3.	18	17.64	18.36	7	21	600	0.1	14
MMBZ5250A	J5.	20	19.60	20.40	6.2	25	600	0.1	15
MMBZ5251A	K1.	22	21.56	22.44	5.6	29	600	0.1	17
MMBZ5252A	K2.	24	23.52	24.48	5.2	33	600	0.1	18
MMBZ5253A	K3.	25	24.50	25.50	5.0	35	600	0.1	19
MMBZ5254A	K4.	27	26.46	27.54	5.0	41	600	0.1	21
MMBZ5256A	M1.	30	29.40	30.60	4.2	49	600	0.1	23
MMBZ5257A	M2.	33	32.34	33.66	3.8	58	700	0.1	25
MMBZ5258A	M3.	36	35.28	36.72	3.4	70	700	0.1	27
MMBZ5259A	M4.	39	38.22	39.78	3.2	80	800	0.1	30
MMBZ5260A	M5.	43	42.14	43.86	3.0	93	900	0.1	33
MMBZ5261A	N1.	47	46.06	47.94	2.7	105	1000	0.1	36
MMBZ5262A	N2.	51	49.98	52.02	2.5	125	1000	0.1	39

Surface mount zener diode

MMBZ5229A-MMBZ5262A

TYPICAL CHARACTERISTICS @ $T_a=25^\circ\text{C}$ unless otherwise specified

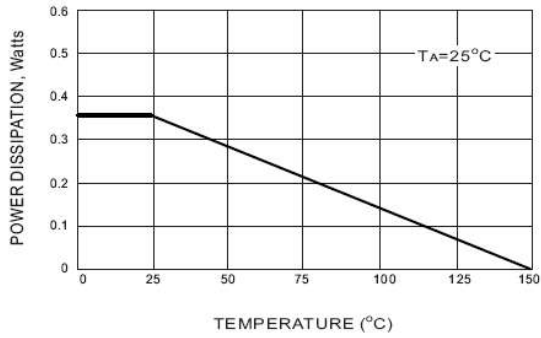


Fig.1 STEADY STATE POWER DERATING

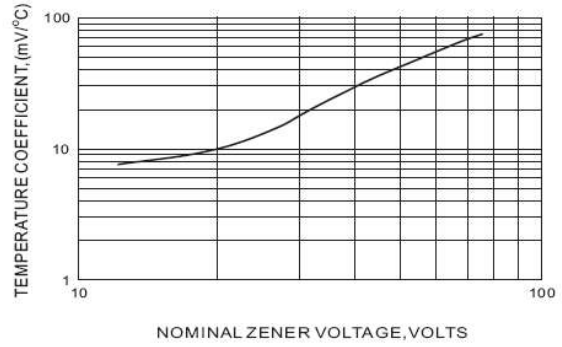


Fig.2 TEMPERATURE COEFFICIENTS

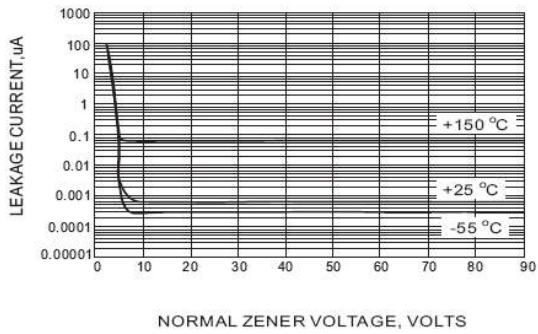


Fig.3 TYPICAL LEAKAGE CURRENT

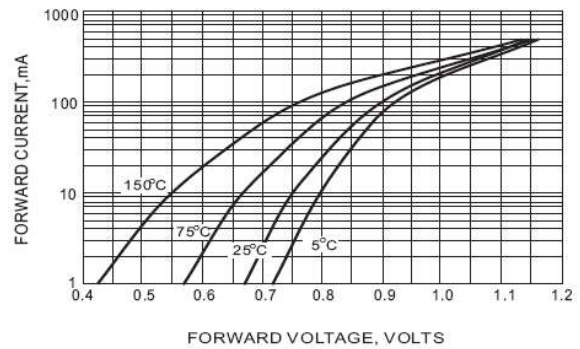


Fig.4 TYPICAL FORWARD VOLTAGE

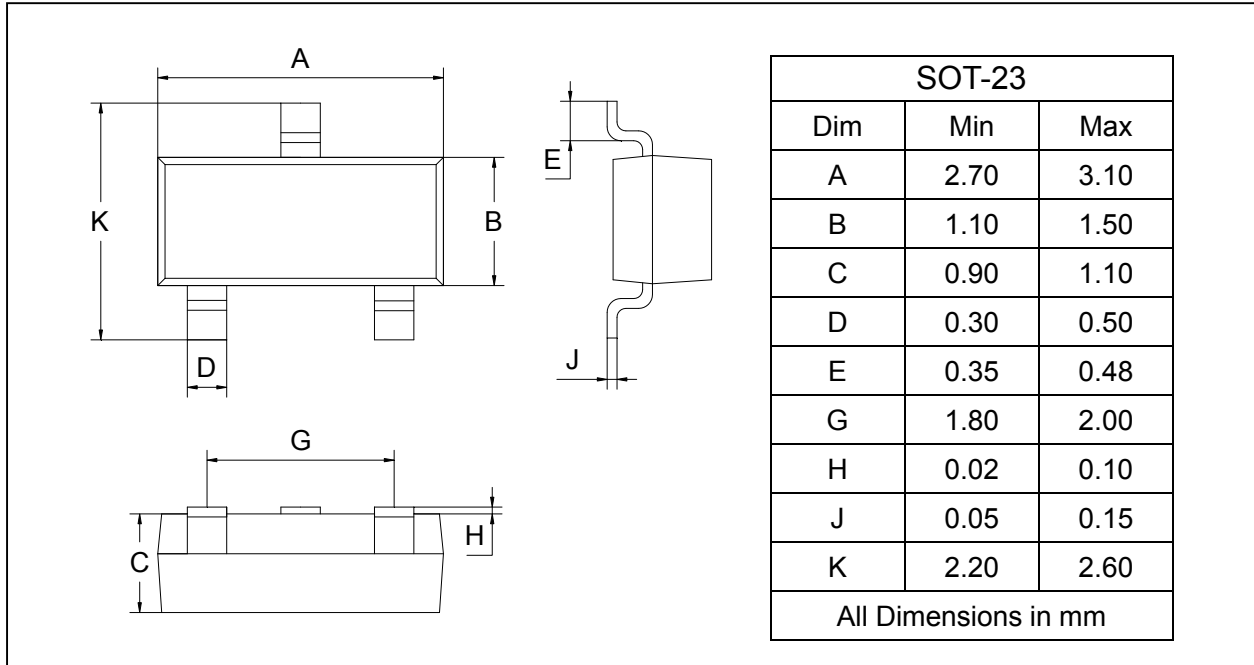
Surface mount zener diode

MMBZ5229A-MMBZ5262A

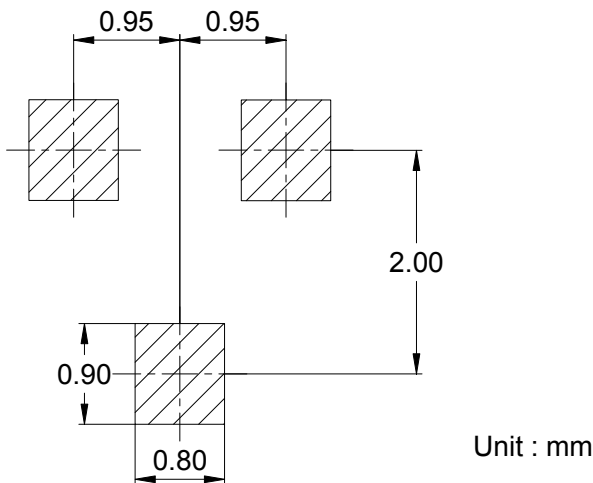
PACKAGE OUTLINE

Plastic surface mounted package

SOT-23



SOLDERING FOOTPRINT



PACKAGE INFORMATION

Device	Package	Shipping
MMBZ5229A- MMBZ5262A	SOT-23	3000/Tape&Reel