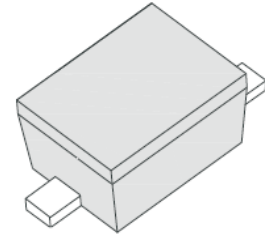


200mW Two Terminals SMD Zener Diodes

Features

- Planar Die Construction
- 200mW Power Dissipation
- Zener Voltage 2.4v to 51v
- Ideally Suited for Automated Assembly Processes
- RoHS Compliance



SOD-323F



Mechanical Data

Case:	SOD-323F, molded plastic
Epoxy:	Plastic package has UL flammability 94V-0
Terminals:	Solderable per MIL-STD-750, Method 2026
Polarity:	Color band denotes cathode
Approx Weight:	0.0041 grams

Maximum Ratings ($T_{Ambient}=25^{\circ}C$ unless noted otherwise)

Symbol	Description	Value	Unit	Conditions
P_D	Power Dissipation	200	mW	T _A =25 °C (Note)
T_J, T_{STG}	Operating Junction and Storage Temperature Range	-55 to +150	°C	

Note: Mounted on 5.0mm² (0.13mm thick) land areas

200mW Two Terminals SMD Zener Diodes

MMSZ5221BWS - MMSZ5262BWS

Electrical Characteristics ($T_{Ambient}=25^{\circ}C$ unless noted otherwise)

Part NO.	Marking Code	Nominal Zener Voltage @ I_{ZT}			Test Current $I_{ZT}(mA)$	Max. Zener Impedance			Max. Reverse Leakage Current $I_R @ V_R$	
		$V_Z(V)$				$Z_{ZT}@ I_{ZT}$	$Z_{ZK}@ I_{ZK}$	$I_{ZK}(mA)$	$I_R (\mu A)$	$V_R(V)$
		Nom.	Min.	Max.						
MMSZ5221BWS	C1	2.4	2.28	2.52	20	30	1200	0.25	100	1.0
MMSZ5222BWS	C2	2.5	2.38	2.63	20	30	1250	0.25	100	1.0
MMSZ5223BWS	C3	2.7	2.57	2.84	20	30	1300	0.25	75	1.0
MMSZ5225BWS	C5	3.0	2.85	3.15	20	30	1600	0.25	50	1.0
MMSZ5226BWS	D1	3.3	3.14	3.47	20	28	1600	0.25	25	1.0
MMSZ5227BWS	D2	3.6	3.42	3.78	20	24	1700	0.25	15	1.0
MMSZ5228BWS	D3	3.9	3.71	4.10	20	23	1900	0.25	10	1.0
MMSZ5229BWS	D4	4.3	4.09	4.52	20	22	2000	0.25	5.0	1.0
MMSZ5230BWS	D5	4.7	4.47	4.94	20	19	1900	0.25	5.0	2.0
MMSZ5231BWS	E1	5.1	4.85	5.36	20	17	1600	0.25	5.0	2.0
MMSZ5232BWS	E2	5.6	5.32	5.88	20	11	1600	0.25	5.0	3.0
MMSZ5233BWS	E3	6.0	5.70	6.30	20	7	1600	0.25	5.0	3.5
MMSZ5234BWS	E4	6.2	5.89	6.51	20	7	1000	0.25	5.0	4.0
MMSZ5235BWS	E5	6.8	6.46	7.14	20	5	750	0.25	3.0	5.0
MMSZ5236BWS	F1	7.5	7.13	7.88	20	6	500	0.25	3.0	6.0
MMSZ5237BWS	F2	8.2	7.79	8.61	20	8	500	0.25	3.0	6.5
MMSZ5238BWS	F3	8.7	8.27	9.14	20	8	600	0.25	3.0	6.5
MMSZ5239BWS	F4	9.1	8.65	9.56	20	10	600	0.25	3.0	7.0
MMSZ5240BWS	F5	10	9.50	10.50	20	17	600	0.25	3.0	8.0
MMSZ5241BWS	H1	11	10.45	11.55	20	22	600	0.25	2.0	8.4
MMSZ5242BWS	H2	12	11.40	12.60	20	30	600	0.25	1.0	9.1
MMSZ5243BWS	H3	13	12.35	13.65	9.5	13	600	0.25	0.5	9.9
MMSZ5244BWS	H4	14	13.30	14.70	9.0	15	600	0.25	0.1	10.5
MMSZ5245BWS	H5	15	14.25	15.75	8.5	16	600	0.25	0.1	11.0
MMSZ5246BWS	J1	16	15.20	16.80	7.8	17	600	0.25	0.1	12.0
MMSZ5247BWS	J2	17	16.15	17.85	7.5	19	600	0.25	0.1	13.0
MMSZ5248BWS	J3	18	17.10	18.90	7.0	21	600	0.25	0.1	14.0
MMSZ5249BWS	J4	19	18.05	19.95	6.6	23	600	0.25	0.1	14.0
MMSZ5250BWS	J5	20	19.00	21.00	6.2	25	600	0.25	0.1	15.0
MMSZ5251BWS	K1	22	20.90	23.10	5.6	29	600	0.25	0.1	17.0
MMSZ5252BWS	K2	24	22.80	25.20	5.2	33	600	0.25	0.1	18.0
MMSZ5253BWS	K3	25	23.75	26.25	5.0	35	600	0.25	0.1	19.0

200mW Two Terminals SMD Zener Diodes

MMSZ5221BWS – MMSZ5262BWS

Part NO.	Marking Code	Nominal Zener Voltage @ I _{ZT}			Test Current I _{ZT} (mA)	Max. Zener Impedance			Max. Reverse Leakage Current I _R @ V _R	
		V _Z (V)				Z _{ZT} @ I _{ZT}	Z _{ZK} @ I _{ZK}	I _{ZK} (mA)	I _R (μA)	V _R (V)
		Nom.	Min.	Max.						
MMSZ5254BWS	K4	27	25.65	28.35	4.6	41	600	0.25	0.1	21.0
MMSZ5255BWS	K5	28	26.60	29.40	4.5	44	600	0.25	0.1	21.0
MMSZ5256BWS	M1	30	28.50	31.50	4.2	49	600	0.25	0.1	23.0
MMSZ5257BWS	M2	33	31.35	34.65	3.8	58	700	0.25	0.1	25.0
MMSZ5258BWS	M3	36	34.20	37.80	3.4	70	700	0.25	0.1	27.0
MMSZ5259BWS	M4	39	37.05	40.95	3.2	80	800	0.25	0.1	30.0
MMSZ5260BWS	M5	43	40.85	45.15	3.0	93	900	0.25	0.1	33.0
MMSZ5261BWS	N1	47	44.65	49.35	2.7	105	1000	0.25	0.1	36.0
MMSZ5262BWS	N2	51	48.45	53.55	2.5	125	1100	0.25	0.1	39.0

Typical Characteristics Curves

Fig.1- Steady State Power Derating

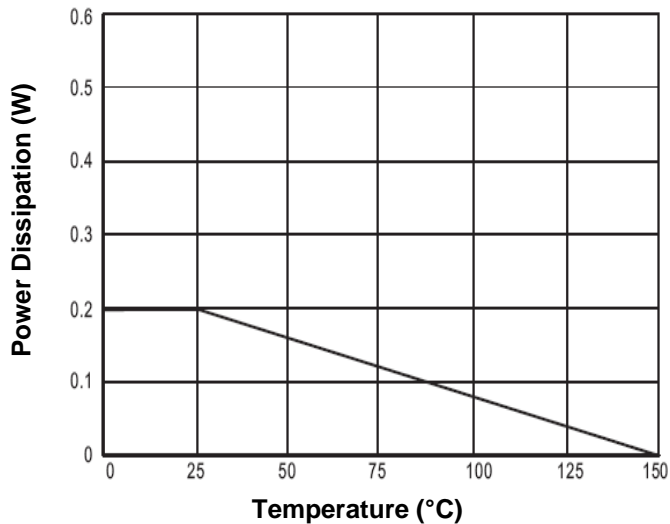
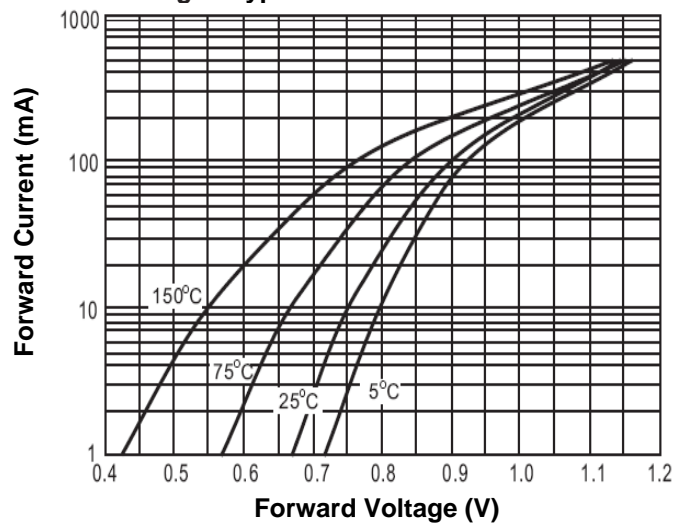


Fig.2- Typical Forward Characteristic



200mW Two Terminals SMD Zener Diodes

MMSZ5221BWS - MMSZ5262BWS

Fig.3-Temperature Coefficient

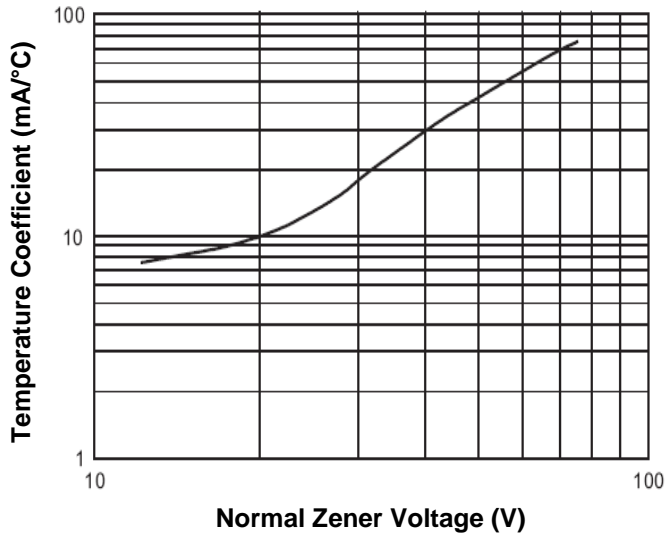
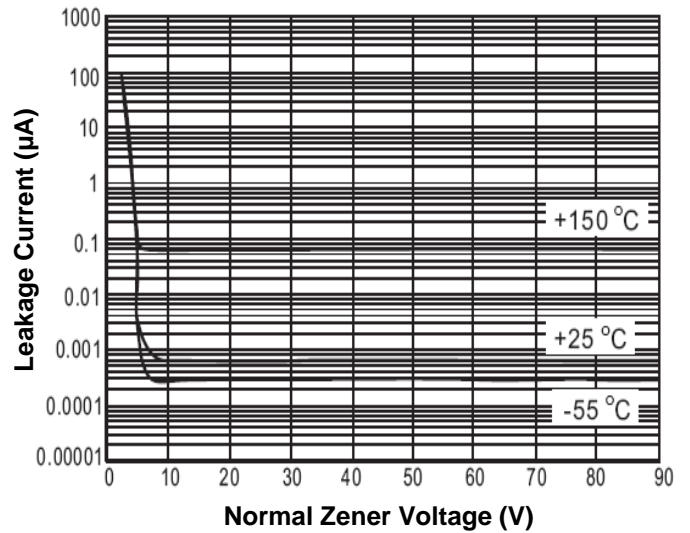
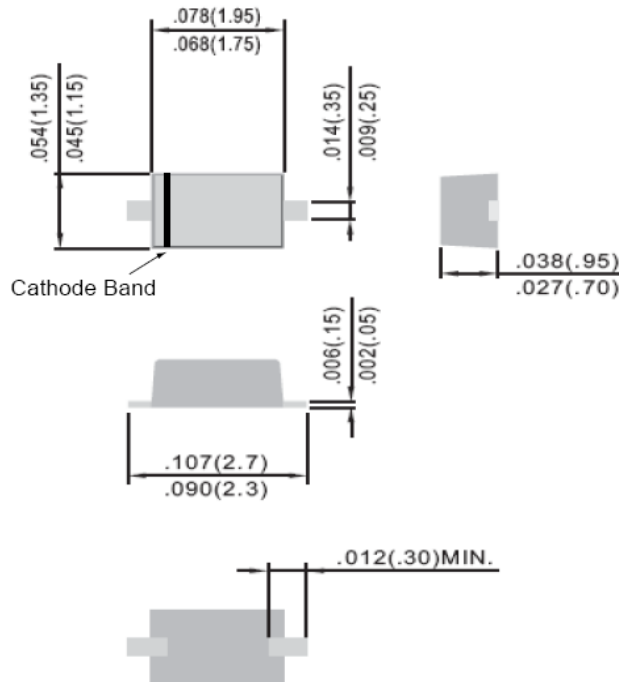


Fig.4-Typical Leakage Current



Dimensions in inch (mm)



SOD-323F

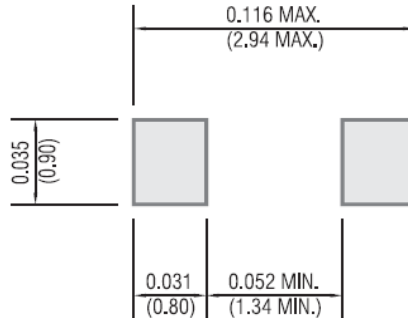
TAITRON
components incorporated

Rev. A/AH 2008-09-30

200mW Two Terminals SMD Zener Diodes

MMSZ5221BWS – MMSZ5262BWS

Mounting Pad Layout in inch (mm)



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