

Zener Diodes

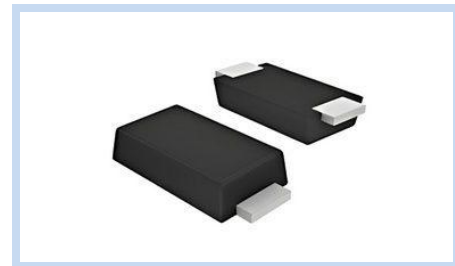
200mW SOD-323F

MMSZ-BS Series

MERITEK

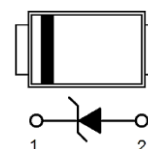
FEATURE

- Zener Voltage Range: 2.4V to 75V
- Zener Voltage Tolerance: $\pm 5\%$
- Power Dissipation: 200mW



APPLICATIONS

- Voltage Regulation
- Overvoltage and Transient Protection
- Power Management Systems
- Waveform Clipping and Clamping



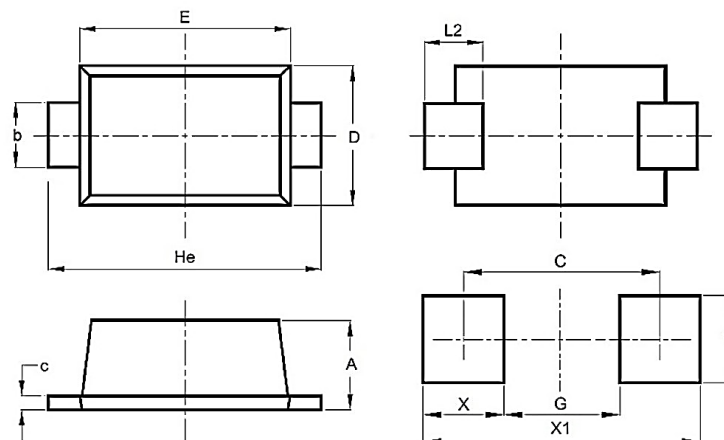
ABSOLUTE MAXIMUM RATINGS

Parameter	Symbols	Value	Unit
Power Dissipation at $T_A = 25^\circ\text{C}$	P_D	200	mW
Operating Junction and Storage Temperature Range	T_J, T_{STG}	-55~+150	$^\circ\text{C}$

Note: Mounted on 5mm^2 (0.013mm thick) land areas.

DIMENSIONS

Item	Min (mm)	Max (mm)
A	0.70	0.90
b	0.25	0.35
c	0.05	0.15
D	1.15	1.35
E	1.75	1.95
He	2.30	2.70
L2	0.30	-
C	2.17	
G	1.44	
X	0.73	
X1	2.90	
Y	0.50	



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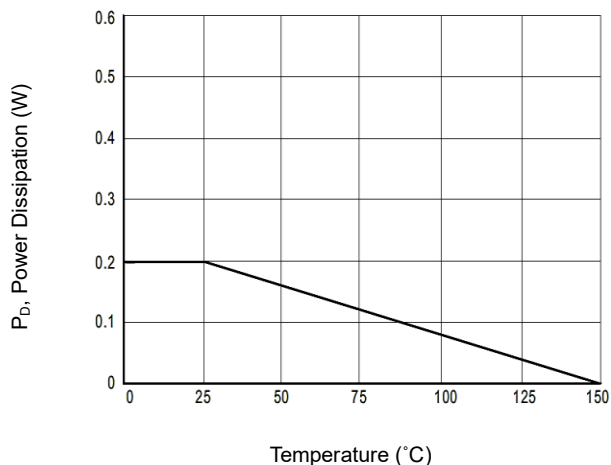
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ELECTRICAL CHARACTERISTICS

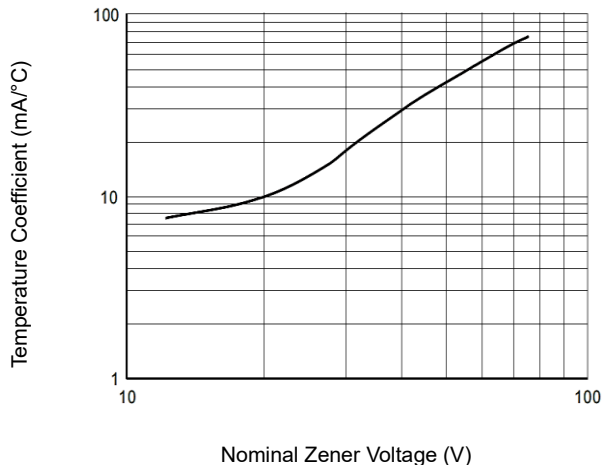
Part Number	Nominal Zener Voltage			Max. Zener Impedance				Max. Reverse Leakage Current	
	V _Z at I _{ZT}			Z _{ZT} at I _{ZT}	I _{ZT}	Z _{ZK} at I _{ZK}	I _{ZK}	I _R at V _R	
	Nom (V)	Min (V)	Max (V)	(Ω)	(mA)	(Ω)	(mA)	(μA)	(V)
MMSZ5221BS	2.4	2.28	2.52	30	20.0	1200	0.25	100	1.0
MMSZ5222BS	2.5	2.38	2.63	30	20.0	1250	0.25	100	1.0
MMSZ5223BS	2.7	2.57	2.84	30	20.0	1300	0.25	75	1.0
MMSZ5225BS	3.0	2.85	3.15	30	20.0	1600	0.25	50	1.0
MMSZ5226BS	3.3	3.14	3.47	28	20.0	1600	0.25	25	1.0
MMSZ5227BS	3.6	3.42	3.78	24	20.0	1700	0.25	15	1.0
MMSZ5228BS	3.9	3.71	4.10	23	20.0	1900	0.25	10	1.0
MMSZ5229BS	4.3	4.09	4.52	22	20.0	2000	0.25	5.0	1.0
MMSZ5230BS	4.7	4.47	4.94	19	20.0	1900	0.25	5.0	2.0
MMSZ5231BS	5.1	4.85	5.36	17	20.0	1600	0.25	5.0	2.0
MMSZ5232BS	5.6	5.32	5.88	11	20.0	1600	0.25	5.0	3.0
MMSZ5234BS	6.2	5.89	6.51	7	20.0	1000	0.25	5.0	4.0
MMSZ5235BS	6.8	6.46	7.14	5	20.0	750	0.25	3.0	5.0
MMSZ5236BS	7.5	7.13	7.88	6	20.0	500	0.25	3.0	6.0
MMSZ5237BS	8.2	7.79	8.61	8	20.0	500	0.25	3.0	6.0
MMSZ5238BS	8.7	8.27	9.14	8	20.0	600	0.25	3.0	6.5
MMSZ5239BS	9.1	8.65	9.56	10	20.0	600	0.25	3.0	6.5
MMSZ5240BS	10	9.50	10.50	17	20.0	600	0.25	3.0	8.0
MMSZ5241BS	11	10.45	11.55	22	20.0	600	0.25	2.0	8.4
MMSZ5242BS	12	11.40	12.60	30	20.0	600	0.25	1.0	9.1
MMSZ5243BS	13	12.35	13.65	13	9.5	600	0.25	0.5	9.9
MMSZ5244BS	14	13.30	14.70	15	9.0	600	0.25	0.1	10.5
MMSZ5245BS	15	14.25	15.75	16	8.5	600	0.25	0.1	11.0
MMSZ5246BS	16	15.20	16.80	17	7.8	600	0.25	0.1	12.0
MMSZ5247BS	17	16.15	17.85	19	7.5	600	0.25	0.1	13.0
MMSZ5248BS	18	17.10	18.90	21	7.0	600	0.25	0.1	14.0
MMSZ5250BS	20	19.00	21.00	25	6.2	600	0.25	0.1	15.0
MMSZ5251BS	22	20.90	23.10	29	5.6	600	0.25	0.1	17.0
MMSZ5252BS	24	22.80	25.20	33	5.2	600	0.25	0.1	18.0
MMSZ5254BS	27	25.65	28.35	41	5.0	600	0.25	0.1	21.0
MMSZ5255BS	28	26.60	29.40	44	4.5	600	0.25	0.1	21.0
MMSZ5256BS	30	28.50	31.50	49	4.2	600	0.25	0.1	23.0
MMSZ5257BS	33	31.35	34.65	58	3.8	700	0.25	0.1	25.0
MMSZ5258BS	36	34.20	37.80	70	3.4	700	0.25	0.1	27.0
MMSZ5259BS	39	37.05	40.95	80	3.2	800	0.25	0.1	30.0
MMSZ5260BS	43	40.85	45.15	93	3.0	900	0.25	0.1	33.0
MMSZ5261BS	47	44.65	49.35	105	2.7	1000	0.25	0.1	36.0
MMSZ5262BS	51	48.45	53.55	125	2.5	1100	0.25	0.1	39.0
MMSZ5263BS	56	53.2	58.8	150	2.2	1300	0.25	0.1	43
MMSZ5264BS	60	57.0	63.0	170	2.1	1400	0.25	0.1	46
MMSZ5265BS	62	58.9	65.1	185	2.0	1500	0.25	0.1	47
MMSZ5266BS	68	64.6	71.4	230	1.8	1600	0.25	0.1	52
MMSZ5267BS	75	71.25	78.75	270	1.7	1400	0.25	0.1	56

CHARACTERISTIC CURVES

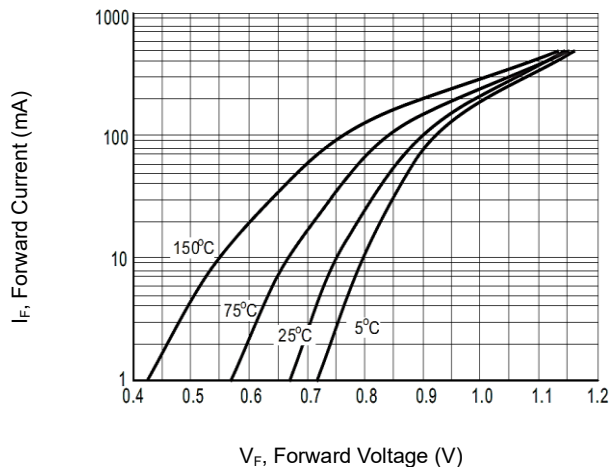
Power Derating Curve



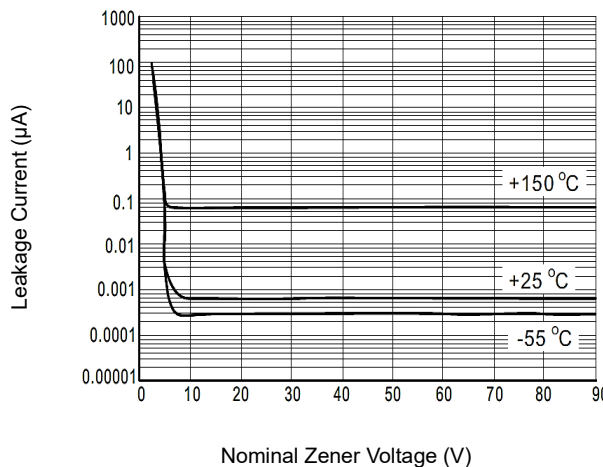
Temperature Coefficients



Typical Forward Voltage



Typical Leakage Current



*Specifications subject to change without notice.