

Zener Diodes SOD-323F

MM3ZS-B Series

MERITEK

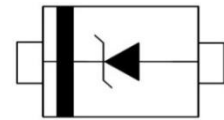
FEATURE

- Zener Voltage Range: 2.4V to 75V
- Zener Voltage Tolerance $\pm 2\%$
- Power Dissipation: 300mW
- Ideally Suited for Automated Assembly Processes
- Application: Power Management Systems, Voltage Regulation



MECHANICAL DATA

- Case: SOD-323F, Molded Plastic
- Terminals: Solderable per MIL-STD-750, Method 2026



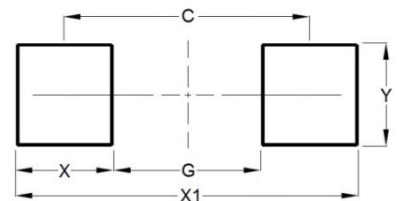
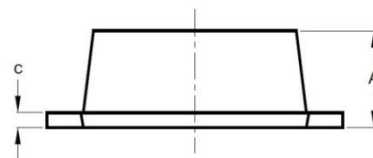
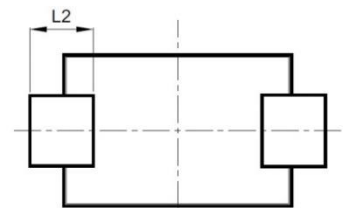
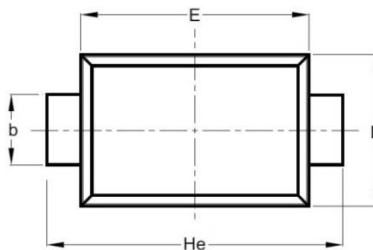
ABSOLUTE MAXIMUM RATINGS

Parameter	Symbols	Value	Unit
Power Dissipation	P_D	300	mW
Forward Voltage at $I_F=10\text{mA}$	V_F	0.9	V
Resistance Junction to Ambient	$R_{\theta JA}$	417	$^{\circ}\text{C}/\text{W}$
Junction Temperature Range	T_J	-55~+150	$^{\circ}\text{C}$
Storage Temperature Range	T_{STG}	-55~+150	$^{\circ}\text{C}$

Note: $T_A = 25^{\circ}\text{C}$ unless otherwise noted

DIMENSIONS AND RECOMMENDED LAND PATTERN

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	2.17
G	1.44	1.44
X	0.73	0.73
X1	2.90	2.90
Y	0.50	0.50



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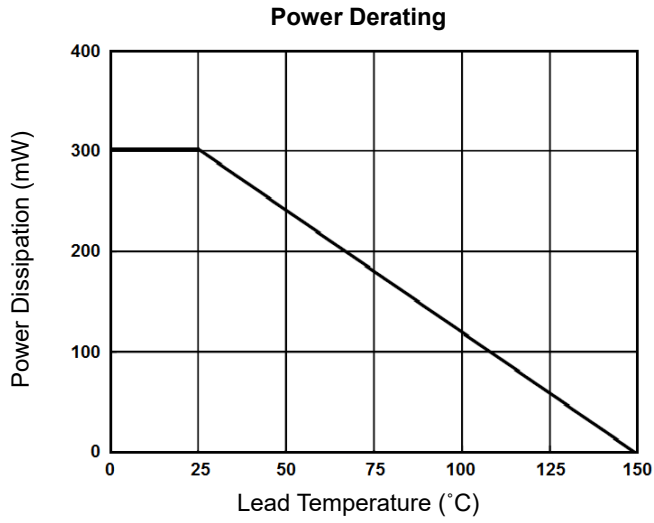
ELECTRICAL CHARACTERISTICS

Part Number	Nominal Zener Voltage V_Z at I_{ZT}			Max Zener Impedance		Max Reverse Leakage Current	
	Nom	Min	Max	Z_{ZT} at I_{ZT}	I_{ZT}	I_R at V_R	
	(V)	(V)	(V)	(Ω)	(mA)	(μ A)	(V)
MM3ZSS2V4B	2.4	2.352	2.448	100	5	120	1.0
MM3ZSS2V7B	2.7	2.646	2.754	110	5	120	1.0
MM3ZSS3V0B	3.0	2.940	3.060	120	5	50	1.0
MM3ZSS3V3B	3.3	3.234	3.366	130	5	20	1.0
MM3ZSS3V6B	3.6	3.528	3.672	130	5	10	1.0
MM3ZS3V9B	3.9	3.822	3.978	130	5	5.0	1.0
MM3ZS4V3B	4.3	4.214	4.386	130	5	5.0	1.0
MM3ZS4V7B	4.7	4.606	4.794	130	5	2.0	1.0
MM3ZS5V1B	5.1	4.998	5.202	130	5	2.0	1.5
MM3ZS5V6B	5.6	5.488	5.712	80	5	1.0	2.5
MM3ZS6V2B	6.2	6.076	6.324	50	5	1.0	3.0
MM3ZS6V8B	6.8	6.664	6.936	30	5	0.5	3.5
MM3ZS7V5B	7.5	7.350	7.650	30	5	0.5	4.0
MM3ZS8V2B	8.2	8.036	8.364	30	5	0.5	5.0
MM3ZS9V1B	9.1	8.918	9.282	30	5	0.5	6.0
MM3ZS10V	10	9.800	10.20	30	5	0.1	7.0
MM3ZS11V	11	10.78	11.22	30	5	0.1	8.0
MM3ZS12V	12	11.76	12.24	35	5	0.1	9.0
MM3ZS13V	13	12.74	13.26	35	5	0.1	10
MM3ZS15V	15	14.70	15.30	40	5	0.1	11
MM3ZS16V	16	15.68	16.32	40	5	0.1	12
MM3ZS18V	18	17.64	18.36	45	5	0.1	13
MM3ZS20V	20	19.60	20.40	50	5	0.1	15
MM3ZS22V	22	21.56	22.44	55	5	0.1	17
MM3ZS24V	24	23.52	24.48	60	5	0.1	19
MM3ZS27V	27	26.46	27.54	70	2	0.1	21
MM3ZS30V	30	29.40	30.60	80	2	0.1	23
MM3ZS33V	33	32.34	33.66	80	2	0.1	25
MM3ZS36V	36	35.28	36.72	90	2	0.1	27
MM3ZS39V	39	38.22	39.78	100	2	0.1	30
MM3ZS43V	43	42.14	43.86	130	2	0.1	33
MM3ZS47V	47	46.06	47.94	150	2	0.1	36
MM3ZS51V	51	49.98	52.02	180	2	0.1	39
MM3ZS56V	56	54.88	57.12	200	2	0.1	43
MM3ZS62V	62	60.76	63.24	215	2	0.1	47
MM3ZS68V	68	66.64	69.36	240	2	0.1	52
MM3ZS75V	75	73.50	76.50	265	2	0.1	56

Notes: 1. $T_A = 25^\circ\text{C}$ unless otherwise noted

2 The Zener Voltage (V_{ZT}) is tested with pulses (20ms).

CHARACTERISTIC CURVES



*Specifications subject to change without notice.