

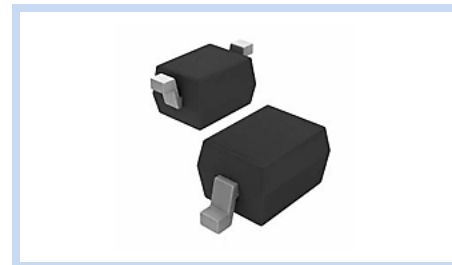
Zener Diodes SOD-323G

MM3Zx-A series

MERITEK

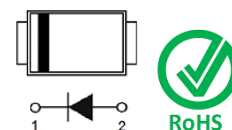
FEATURE

- Zener Breakdown Voltage Range: 2V to 75V
- Power Dissipation: 300mW
- AEC-Q101 Compliant
- Application: Power Management Systems, Voltage Regulation



MECHANICAL DATA

- Case: SOD-323G, Molded Plastic
- Mounting Position : Any

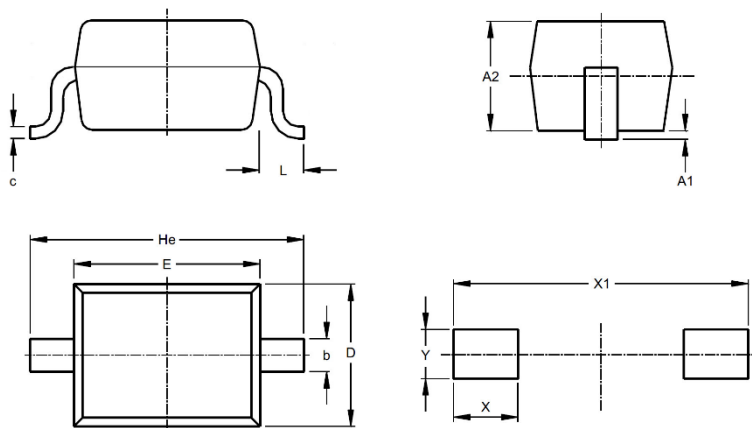


MAXIMUM RATINGS

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

DIMENSIONS

Item	Min (mm)	Max (mm)
A	0.70	1.10
A1	0.00	0.10
b	0.25	0.40
c	0.08	0.18
D	1.15	1.35
E	1.60	1.80
He	2.30	2.80
L	0.10	0.50
X	0.59	
X1	2.70	
Y	0.45	



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ELECTRICAL CHARACTERISTICS

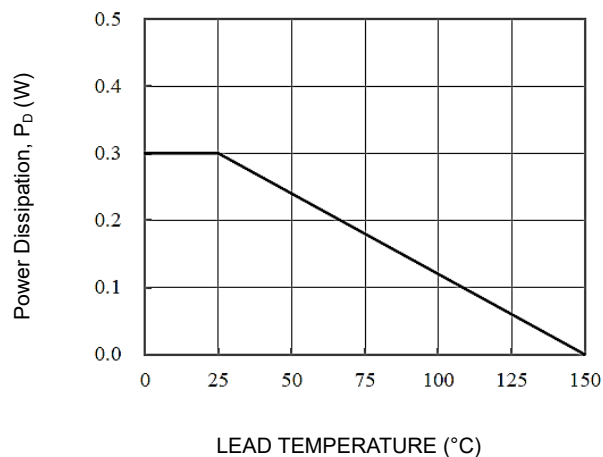
Part Number	Zener Voltage Range				Dynamic Impedance		Reverse Current	
	V_Z			I_{ZT}	Z_{ZT}	I_{ZT}	I_R	V_R
	Min. (V)	Nom. (V)	Max. (V)	mA	Max. (Ω)	mA	Max (μ A)	V
MM3ZS2V0-A	1.80	2.0	2.15	5.0	100	5.0	120	0.5
MM3ZS2V2-A	2.08	2.2	2.33	5.0	100	5.0	120	0.7
MM3ZS2V4-A	2.28	2.4	2.56	5.0	100	5.0	120	1.0
MM3ZS2V7-A	2.50	2.7	2.90	5.0	110	5.0	120	1.0
MM3ZS3V0-A	2.80	3.0	3.20	5.0	120	5.0	50	1.0
MM3ZS3V3-A	3.10	3.3	3.50	5.0	130	5.0	20	1.0
MM3ZS3V6-A	3.40	3.6	3.80	5.0	130	5.0	10	1.0
MM3ZS3V9-A	3.70	3.9	4.10	5.0	130	5.0	5.0	1.0
MM3ZS4V3-A	4.00	4.3	4.60	5.0	130	5.0	5.0	1.0
MM3ZS4V7-A	4.40	4.7	5.00	5.0	130	5.0	2.0	1.0
MM3ZS5V1-A	4.80	5.1	5.40	5.0	130	5.0	2.0	1.5
MM3ZS5V6-A	5.20	5.6	6.00	5.0	80	5.0	1.0	2.5
MM3ZS6V2-A	5.80	6.2	6.60	5.0	50	5.0	1.0	3.0
MM3ZS6V8-A	6.40	6.8	7.20	5.0	30	5.0	0.5	3.5
MM3ZS7V5-A	7.00	7.5	7.90	5.0	30	5.0	0.5	4.0
MM3ZS8V2-A	7.70	8.2	8.70	5.0	30	5.0	0.5	5.0
MM3ZS9V1-A	8.50	9.1	9.60	5.0	30	5.0	0.5	6.0
MM3ZS10-A	9.40	10.0	10.60	5.0	30	5.0	0.1	7.0
MM3ZS11-A	10.40	11.0	11.60	5.0	30	5.0	0.1	8.0
MM3ZS12-A	11.40	12.0	12.70	5.0	35	5.0	0.1	9.0
MM3ZS13-A	12.40	13.0	14.10	5.0	35	5.0	0.1	10
MM3ZS15-A	13.80	15.0	15.60	5.0	40	5.0	0.1	11
MM3ZS16-A	15.30	16.0	17.10	5.0	40	5.0	0.1	12
MM3ZS18-A	16.80	18.0	19.10	5.0	45	5.0	0.1	13
MM3ZS20-A	18.80	20.0	21.20	5.0	50	5.0	0.1	15
MM3ZS22-A	20.80	22.0	23.30	5.0	55	5.0	0.1	17
MM3ZS24-A	22.80	24.0	25.60	5.0	60	5.0	0.1	19
MM3ZS27-A	25.10	27.0	28.90	2.0	70	2.0	0.1	21
MM3ZS30-A	28.00	30.0	32.00	2.0	80	2.0	0.1	23
MM3ZS33-A	31.00	33.0	35.00	2.0	80	2.0	0.1	25
MM3ZS36-A	34.00	36.0	38.00	2.0	90	2.0	0.1	27
MM3ZS39-A	37.00	39.0	41.00	2.0	100	2.0	0.1	30
MM3ZS43-A	40.00	43.0	46.00	2.0	130	2.0	0.1	33
MM3ZS47-A	44.00	47.0	50.00	2.0	150	2.0	0.1	36
MM3ZS51-A	48.00	51.0	54.00	2.0	180	2.0	0.1	39
MM3ZS56-A	52.00	56.0	60.00	2.0	200	2.0	0.1	43
MM3ZS62-A	58.00	62.0	66.00	2.0	215	2.0	0.1	47
MM3ZS68-A	64.00	68.0	72.00	2.0	240	2.0	0.1	52
MM3ZS75-A	70.00	75.0	79.00	2.0	265	2.0	0.1	56

Note:

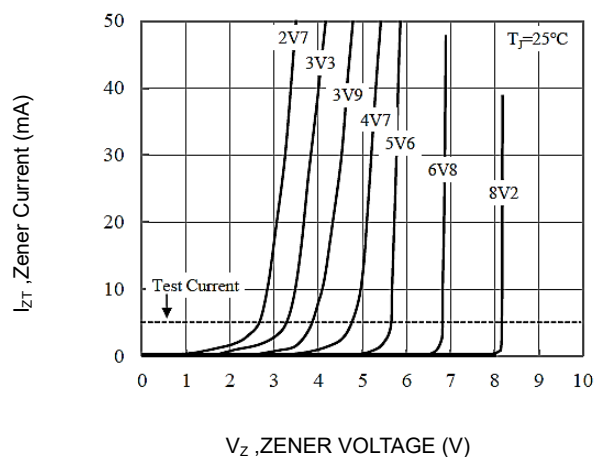
1. Device mounted on FR-4 substrate PC board, 2oz copper, with minimum recommended pad layout.
2. V_{ZT} is tested with pulses (20 ms).

CHARACTERISTIC CURVES

Power Derating Curve



Zener Breakdown Characteristics



Zener Breakdown Characteristics

