AMM3ZS2V0GH THRU AMM3ZS75GH

ZENER DIODES

REVERSE VOLTAGE: **2.0 TO 75 VOLTS**

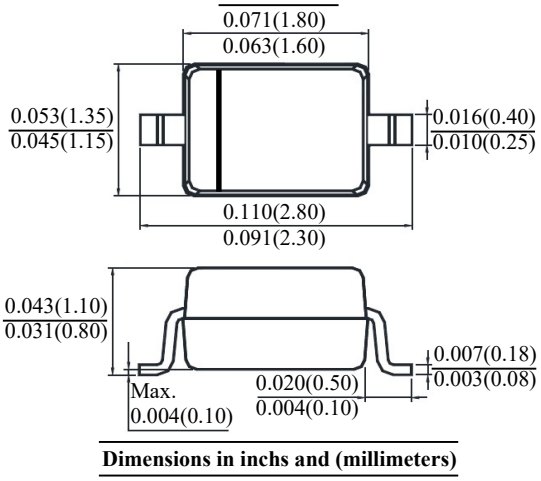
POWER DISSIPATION: **300 mWATTS**

FEATURES

· AEC-Q101 Qualified

· Suffix "H" indicates Halogen-free parts, ex. AMM3ZS2V0GH

SOD-323G



Dimensions in inchs and (millimeters)

MECHANICAL DATA

Case : SOD-323G

Mounting Position : Any

Maximum Ratings @ 25 °C Unless Otherwise Specified

Parameter	Symbol	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 (Note 1)	$R_{\theta JA}$	417	℃/W
Junction Temperature	T_J	150	℃
Storage Temperature Range	T_{stg}	-55 to +150	℃

Note :

1. Device mounted on FR-4 substrate PC board, 2oz copper, with minimum recommended pad layout.

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Electrical Characteristics

Tamb = 25 °C, unless otherwise specified

Part Number	Marking Code	Zener Voltage[2]				Dynamic Impedance		Reverse Leakage Current	
		V_Z			I_{ZT}	Z_{ZT}	I_{ZT}	I_R	V_R
		Min. (V)	Nom. (V)	Max. (V)	mA	Max. (Ω)	mA	Max. (μA)	V
AMM3ZS2V0GH	B0	1.80	2.0	2.15	5.0	100	5.0	120	0.5
AMM3ZS2V2GH	C0	2.08	2.2	2.33	5.0	100	5.0	120	0.7
AMM3ZS2V4GH	1C	2.28	2.4	2.56	5.0	100	5.0	120	1.0
AMM3ZS2V7GH	1D	2.50	2.7	2.90	5.0	110	5.0	120	1.0
AMM3ZS3V0GH	1E	2.80	3.0	3.20	5.0	120	5.0	50	1.0
AMM3ZS3V3GH	1F	3.10	3.3	3.50	5.0	130	5.0	20	1.0
AMM3ZS3V6GH	1H	3.40	3.6	3.80	5.0	130	5.0	10	1.0
AMM3ZS3V9GH	1J	3.70	3.9	4.10	5.0	130	5.0	5.0	1.0
AMM3ZS4V3GH	1K	4.00	4.3	4.60	5.0	130	5.0	5.0	1.0
AMM3ZS4V7GH	1M	4.40	4.7	5.00	5.0	130	5.0	2.0	1.0
AMM3ZS5V1GH	1N	4.80	5.1	5.40	5.0	130	5.0	2.0	1.5
AMM3ZS5V6GH	1P	5.20	5.6	6.00	5.0	80	5.0	1.0	2.5
AMM3ZS6V2GH	1R	5.80	6.2	6.60	5.0	50	5.0	1.0	3.0
AMM3ZS6V8GH	1X	6.40	6.8	7.20	5.0	30	5.0	0.5	3.5
AMM3ZS7V5GH	1Y	7.00	7.5	7.90	5.0	30	5.0	0.5	4.0
AMM3ZS8V2GH	1Z	7.70	8.2	8.70	5.0	30	5.0	0.5	5.0
AMM3ZS9V1GH	2A	8.50	9.1	9.60	5.0	30	5.0	0.5	6.0
AMM3ZS10GH	2B	9.40	10.0	10.60	5.0	30	5.0	0.1	7.0
AMM3ZS11GH	2C	10.40	11.0	11.60	5.0	30	5.0	0.1	8.0
AMM3ZS12GH	2D	11.40	12.0	12.70	5.0	35	5.0	0.1	9.0
AMM3ZS13GH	2E	12.40	13.0	14.10	5.0	35	5.0	0.1	10
AMM3ZS15GH	2F	13.80	15.0	15.60	5.0	40	5.0	0.1	11
AMM3ZS16GH	2H	15.30	16.0	17.10	5.0	40	5.0	0.1	12
AMM3ZS18GH	2J	16.80	18.0	19.10	5.0	45	5.0	0.1	13
AMM3ZS20GH	2K	18.80	20.0	21.20	5.0	50	5.0	0.1	15
AMM3ZS22GH	2M	20.80	22.0	23.30	5.0	55	5.0	0.1	17
AMM3ZS24GH	2N	22.80	24.0	25.60	5.0	60	5.0	0.1	19
AMM3ZS27GH	2P	25.10	27.0	28.90	2.0	70	2.0	0.1	21
AMM3ZS30GH	2R	28.00	30.0	32.00	2.0	80	2.0	0.1	23
AMM3ZS33GH	2X	31.00	33.0	35.00	2.0	80	2.0	0.1	25
AMM3ZS36GH	2Y	34.00	36.0	38.00	2.0	90	2.0	0.1	27
AMM3ZS39GH	2Z	37.00	39.0	41.00	2.0	100	2.0	0.1	30
AMM3ZS43GH	3A	40.00	43.0	46.00	2.0	130	2.0	0.1	33
AMM3ZS47GH	3B	44.00	47.0	50.00	2.0	150	2.0	0.1	36
AMM3ZS51GH	3C	48.00	51.0	54.00	2.0	180	2.0	0.1	39
AMM3ZS56GH	3D	52.00	56.0	60.00	2.0	200	2.0	0.1	43
AMM3ZS62GH	3E	58.00	62.0	66.00	2.0	215	2.0	0.1	47
AMM3ZS68GH	3F	64.00	68.0	72.00	2.0	240	2.0	0.1	52
AMM3ZS75GH	3H	70.00	75.0	79.00	2.0	265	2.0	0.1	56

Note:

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

RATINGS AND CHARACTERISTIC CURVES

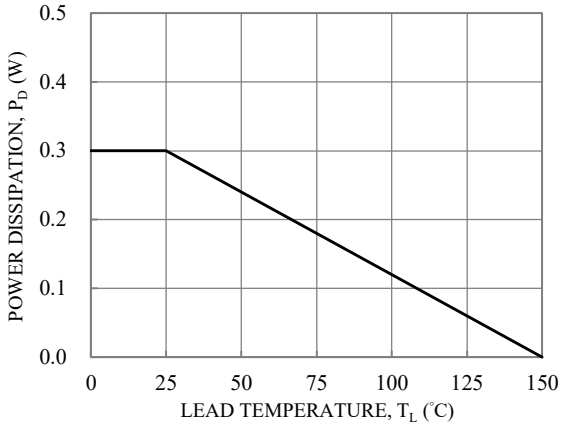

Fig. 1 Power Derating Curve

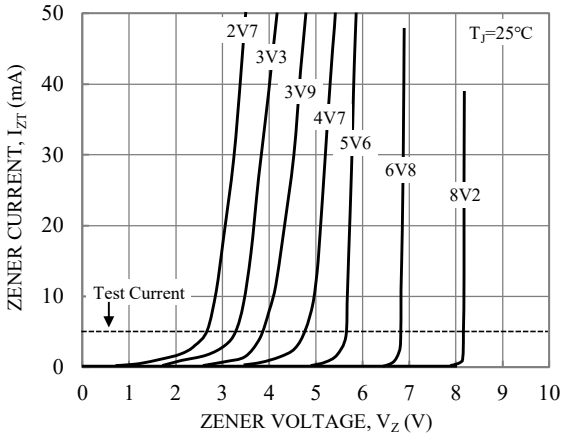

Fig. 2 Typical Zener Breakdown Characteristics

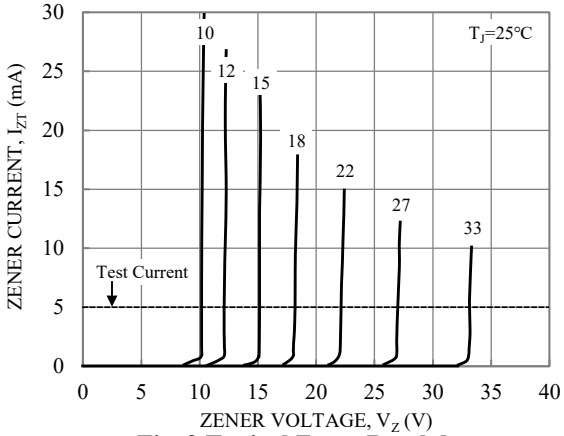

Fig. 3 Typical Zener Breakdown Characteristics