



AMM3ZS2V4BGH THRU AMM3ZS39BGH

ZENER DIODES

REVERSE VOLTAGE: 2.2 TO 39 VOLTS

POWER DISSIPATION: 300 mWATTS

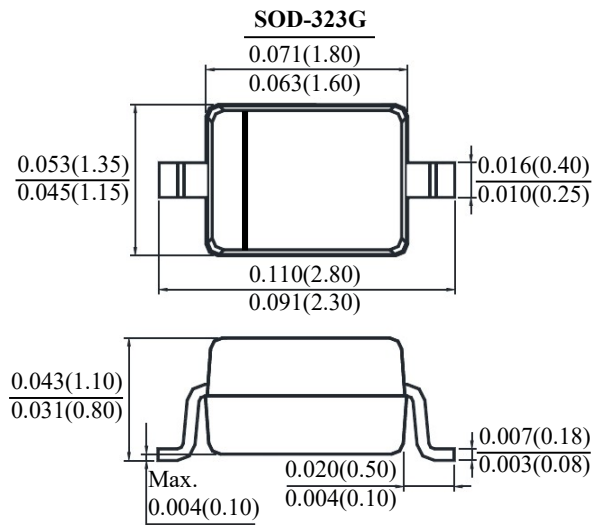
FEATURES

- AEC-Q101 Qualified
- Suffix "H" indicates Halogen-free parts, ex. AMM3ZS2V2GH

MECHANICAL DATA

Case : SOD-323G

Mounting Position : Any



Dimensions in inches and (millimeters)

Maximum Ratings @ 25 °C Unless Otherwise Specified

Parameter	Symbol	Value	Unit
Power Dissipation	P_D	300	mW
Forward Voltage at $I_F=10\text{mA}$	V_F	0.9	V
Thermal Resistance from Junction to Ambient (Note 1)	R_{0JA}	417	°C/W
Junction Temperature	T_J	150	°C
Storage Temperature Range	T_{stg}	-55 to +150	°C

Note :

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



AMM3ZS2V4BGH THRU AMM3ZS39BGH

ZENER DIODES

Electrical Characteristics

Tamb = 25 °C, unless otherwise specified

Type	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
AMM3ZS2V2BGH	MF	2.10	2.2	2.40	5.0	100	5.0	120	0.7
AMM3ZS2V4BGH	7C	2.30	2.4	2.65	5.0	100	5.0	120	1.0
AMM3ZS2V7BGH	7D	2.65	2.7	2.95	5.0	110	5.0	120	1.0
AMM3ZS3V0BGH	7E	2.95	3.0	3.25	5.0	120	5.0	50	1.0
AMM3ZS3V3BGH	7F	3.25	3.3	3.55	5.0	120	5.0	20	1.0
AMM3ZS3V6BGH	7H	3.60	3.6	3.85	5.0	100	5.0	10	1.0
AMM3ZS3V9BGH	7J	3.89	3.9	4.16	5.0	100	5.0	5.0	1.0
AMM3ZS4V3BGH	7K	4.17	4.3	4.43	5.0	100	5.0	5.0	1.0
AMM3ZS4V7BGH	7M	4.55	4.7	4.75	5.0	100	5.0	2.0	1.0
AMM3ZS5V1BGH	7N	4.98	5.1	5.20	5.0	80	5.0	2.0	1.5
AMM3ZS5V6BGH	7P	5.49	5.6	5.73	5.0	60	5.0	1.0	2.5
AMM3ZS6V2BGH	7R	6.06	6.2	6.33	5.0	60	5.0	1.0	3.0
AMM3ZS6V8BGH	7X	6.65	6.8	6.93	5.0	40	5.0	0.5	3.5
AMM3ZS7V5BGH	7Y	7.28	7.5	7.60	5.0	30	5.0	0.5	4.0
AMM3ZS8V2BGH	7Z	8.02	8.2	8.36	5.0	30	5.0	0.5	5.0
AMM3ZS9V1BGH	8A	8.85	9.1	9.23	5.0	30	5.0	0.5	6.0
AMM3ZS10BGH	8B	9.77	10.0	10.21	5.0	30	5.0	0.1	7.0
AMM3ZS11BGH	8C	10.76	11.0	11.22	5.0	30	5.0	0.1	8.0
AMM3ZS12BGH	8D	11.74	12.0	12.24	5.0	30	5.0	0.1	9.0
AMM3ZS13BGH	8E	12.91	13.0	13.49	5.0	37	5.0	0.1	10
AMM3ZS15BGH	8F	14.34	15.0	14.98	5.0	42	5.0	0.1	11
AMM3ZS16BGH	8H	15.85	16.0	16.51	5.0	50	5.0	0.1	12
AMM3ZS18BGH	8J	17.56	18.0	18.35	5.0	65	5.0	0.1	13
AMM3ZS20BGH	8K	19.52	20.0	20.39	5.0	85	5.0	0.1	15
AMM3ZS22BGH	8M	21.54	22.0	22.47	5.0	100	5.0	0.1	17
AMM3ZS24BGH	8N	23.72	24.0	24.78	5.0	120	5.0	0.1	19
AMM3ZS27BGH	8P	26.19	27.0	27.53	5.0	150	5.0	0.1	21
AMM3ZS30BGH	8R	29.19	30.0	30.69	5.0	200	5.0	0.1	23
AMM3ZS33BGH	8X	32.15	33.0	33.79	5.0	250	5.0	0.1	25
AMM3ZS36BGH	8Y	35.07	36.0	36.87	5.0	300	5.0	0.1	27
AMM3ZS39BGH	8Z	37.00	39.0	41.00	5.0	100	5.0	2.0	30

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



AMM3ZS2V4BGH THRU AMM3ZS39BGH ZENER DIODES

RATINGS AND CHARACTERISTIC CURVES

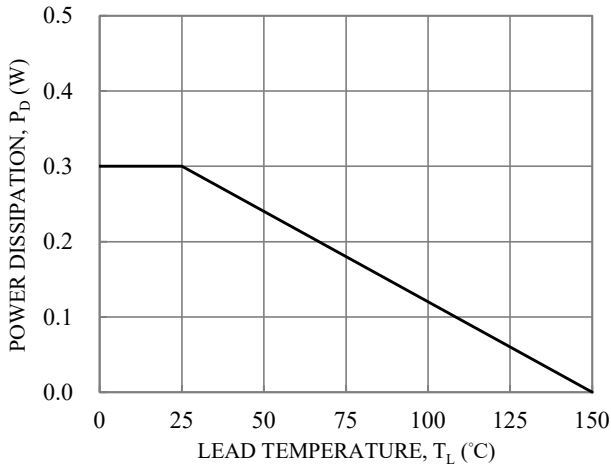


Fig. 1 Power Derating Curve

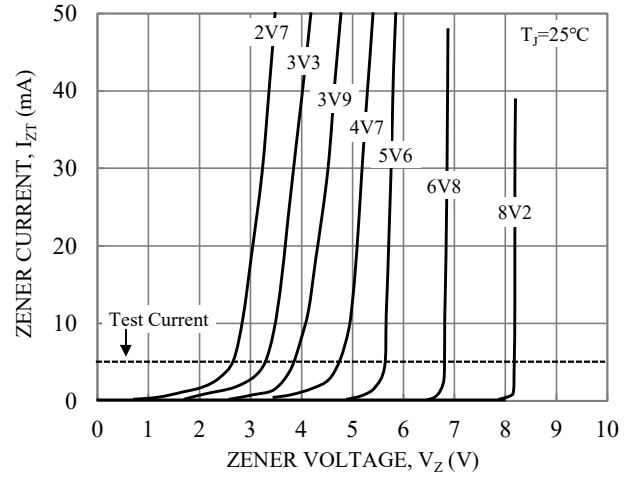


Fig. 2 Typical Zener Breakdown Characteristics

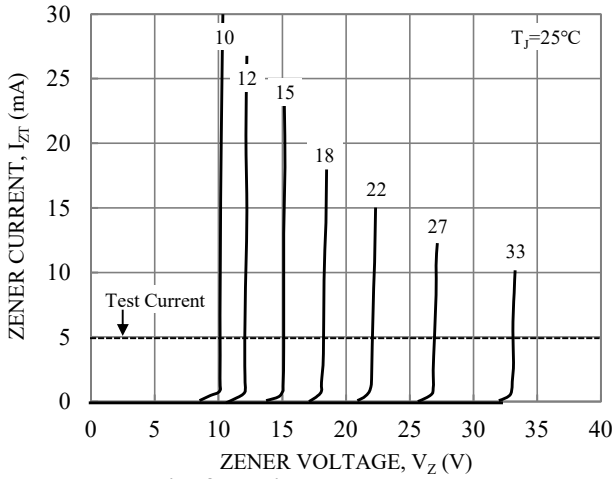


Fig. 3 Typical Zener Breakdown Characteristics