



YENYO

MM3Z2V4 THRU MM3Z75V

ZENER DIODES

REVERSE VOLTAGE: 2.4 TO 75 VOLTS

POWER DISSIPATION: 200 mWATTS

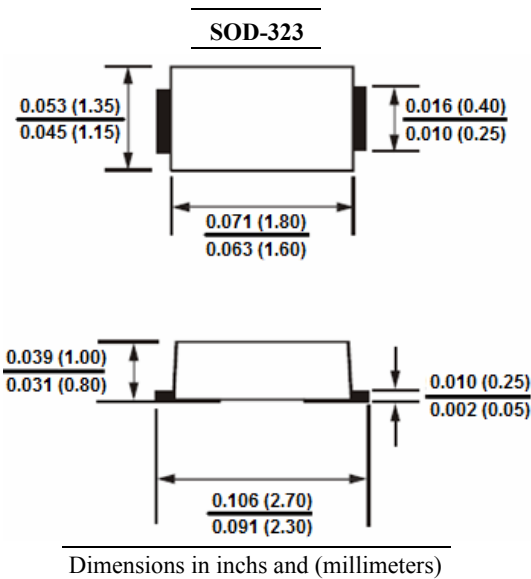
FEATURES

- Zener Voltage Range 2.4 to 75 Volts
- Clip Bonding Construction, Good Thermal Capability
- Suffix "H" indicates Halogen-free parts, ex. MM3Z2V4H

MECHANICAL DATA

Case : SOD-323

Mounting Position : Any



Maximum Ratings @ 25 °C Unless Otherwise Specified

Parameter	Symbol	Value	Unit
Power Dissipation	P_{tot}	200	mW
Junction Temperature	T_J	150	°C
Storage Temperature Range	T_{stg}	-65 to +150	°C

Parameter	Symbol	Value	Unit
Forward Voltage at $I_F = 10mA$	V_F	1.0	V



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Electrical Characteristics

Tamb = 25 °C, unless otherwise specified

Type	Marking Code	V _Z @ I _{ZT} NORMAL ZENER VOLTAGE			I _{ZT} mA	Z _{ZT} @ I _{ZT} Max. Ω	I _{ZK} mA	Z _{ZK} @ I _{ZK} Max. Ω	I _R @ V _R Max. μA	V _R V
		Min.	Nom.	Max.						
		V	V	V						
MM3Z2V4	Z0	2.28	2.4	2.52	5	100	1	564	45	1.0
MM3Z2V7	Z1	2.57	2.7	2.84	5	100	1	564	18	1.0
MM3Z3V0	Z2	2.85	3.0	3.15	5	100	1	564	9.0	1.0
MM3Z3V3	Z3	3.14	3.3	3.47	5	95	1	564	4.5	1.0
MM3Z3V6	Z4	3.42	3.6	3.78	5	90	1	564	4.5	1.0
MM3Z3V9	Z5	3.71	3.9	4.10	5	90	1	564	2.7	1.0
MM3Z4V3	Z6	4.09	4.3	4.52	5	90	1	564	2.7	1.0
MM3Z4V7	Z7	4.47	4.7	4.94	5	80	1	470	2.7	2.0
MM3Z5V1	Z8	4.85	5.1	5.36	5	60	1	451	1.8	2.0
MM3Z5V6	Z9	5.32	5.6	5.88	5	40	1	376	0.9	2.0
MM3Z6V2	ZA	5.89	6.2	6.51	5	10	1	141	2.7	4.0
MM3Z6V8	ZB	6.46	6.8	7.14	5	15	1	75	1.8	4.0
MM3Z7V5	ZC	7.11	7.5	7.86	5	15	1	75	0.9	5.0
MM3Z8V2	ZD	7.79	8.2	8.61	5	15	1	75	0.63	5.0
MM3Z9V1	ZE	8.65	9.1	9.56	5	15	1	94	0.45	6.0
MM3Z10V	ZF	9.50	10	10.50	5	20	1	141	0.18	7.0
MM3Z11V	ZG	10.45	11	11.55	5	20	1	141	0.09	8.0
MM3Z12V	ZH	11.40	12	12.60	5	25	1	141	0.09	8.0
MM3Z13V	ZJ	12.35	13	13.65	5	30	1	160	0.09	8.0
MM3Z15V	ZK	14.25	15	15.75	5	30	1	188	0.045	10.5
MM3Z16V	ZL	15.20	16	16.80	5	40	1	188	0.045	11.2
MM3Z18V	ZM	17.10	18	18.90	5	45	1	212	0.045	12.6
MM3Z20V	ZN	19.00	20	21.00	5	55	1	212	0.045	14.0
MM3Z22V	ZP	20.90	22	23.10	5	55	1	235	0.045	15.4
MM3Z24V	ZR	22.80	24	25.20	5	70	1	235	0.045	16.8
MM3Z27V	ZS	25.65	27	28.35	5	80	0.5	282	0.045	18.9
MM3Z30V	ZT	28.50	30	31.50	5	80	0.5	282	0.045	21.0
MM3Z33V	ZU	31.35	33	34.65	5	80	0.5	306	0.045	23.0
MM3Z36V	ZV	34.20	36	37.80	5	90	0.5	329	0.045	25.2
MM3Z39V	ZW	37.05	39	40.95	5	130	0.5	329	0.045	27.3
MM3Z43V	ZX	40.85	43	45.15	5	150	0.5	353	0.045	30.1
MM3Z47V	ZY	44.65	47	49.35	5	170	0.5	353	0.045	33.0
MM3Z51V	Z-	48.45	51	53.55	5	180	0.5	376	0.045	35.7
MM3Z56V	Z=	53.20	56	58.80	5	200	0.5	400	0.045	39.2
MM3Z62V	Z≡	58.90	62	65.10	5	215	0.5	423	0.045	43.4
MM3Z68V	Z>	64.60	68	71.40	5	240	0.5	447	0.045	47.6
MM3Z75V	Z<	71.25	75	78.75	5	255	0.5	470	0.045	52.5

NOTES:

1. The Zener Voltage (V_Z) is tested under pulse condition of 10mS.
2. The device numbers listed have a standard tolerance on the nominal zener voltage of ±5%.
3. The zener impedance is derived from the 60-cycle ac voltage, which results when an ac current having an rms value equal to 10% of the dc zener current (I_{ZT} or I_{ZK}) is superimposed to I_{ZT} or I_{ZK}.



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Typical Characteristics

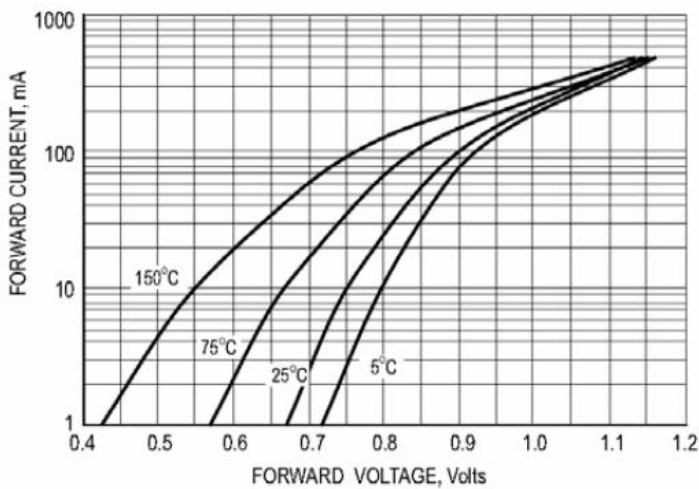


Fig.1 TYPICAL FORWARD VOLTAGE

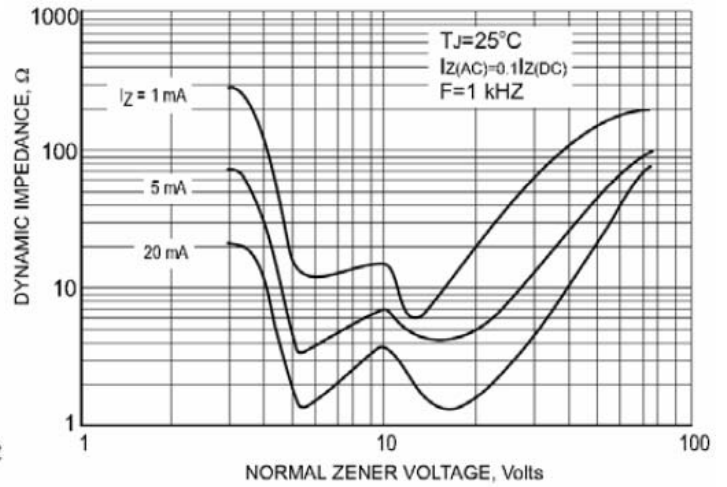


Fig.2 EFFECT OF ZENER VOLTAGE ON ZENER IMPEDANCE

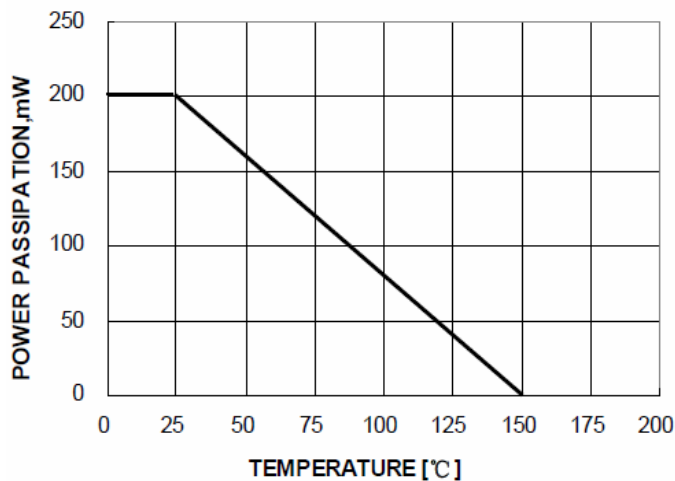


Fig.3 POWER DISSIPATION VS. AMBIENT TEMP.

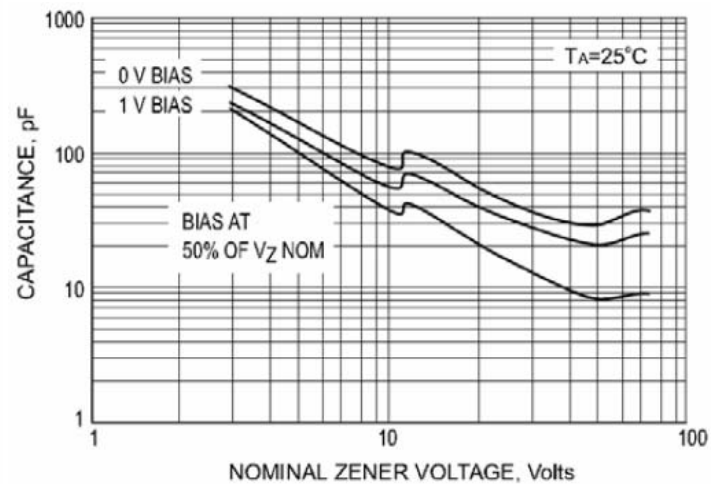


Fig.4 TYPICAL CAPACITANCE

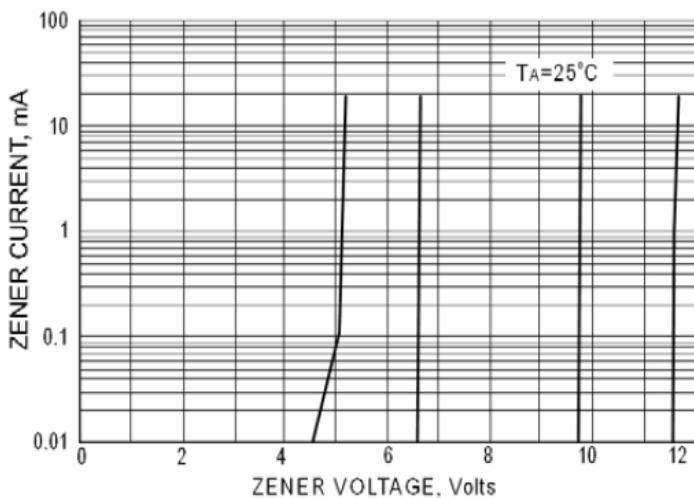


Fig.5 ZENER BREAKDOWN CHARACTERISTICS

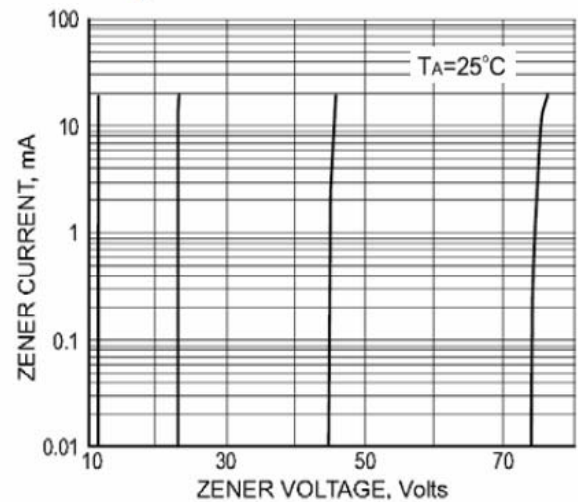


Fig.6 ZENER BREAKDOWN CHARACTERISTICS



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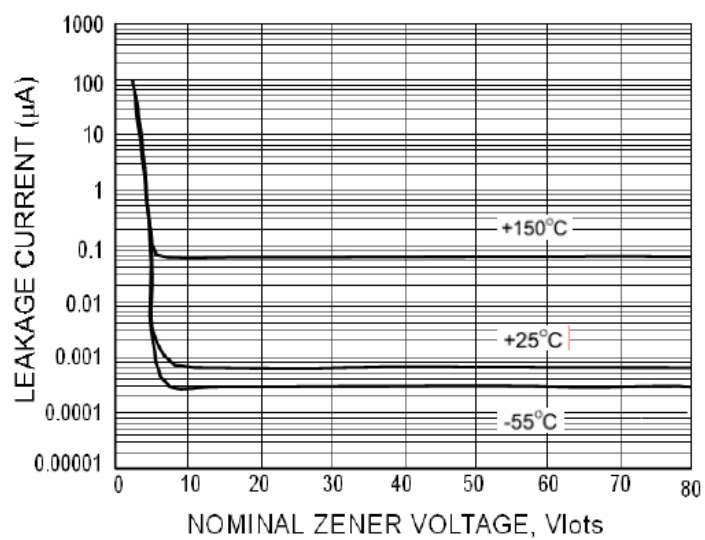


Fig.7 TYPICAL LEAKGE CURRENT