



YENYO

MM3ZS2V4G THRU MM3ZS75VG

Surface Mount Zener Diode

Features

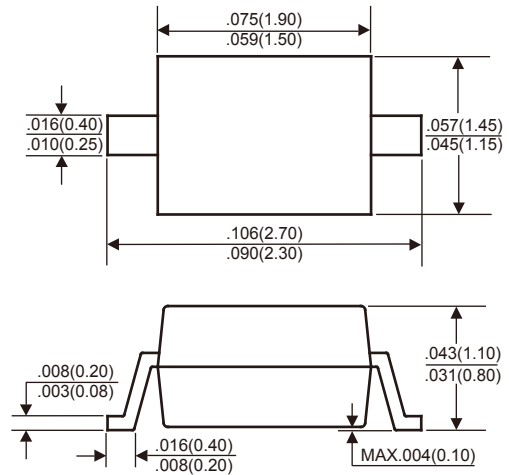
- ★ Ideally Suited for Automated Assembly Processes
- ★ High reliability
- ★ Zener voltage tolerance is $\pm 5\%$

Mechanical Data

- ★ Case: Molded plastic SOD-323
- ★ Epoxy: UL 94V-0 rate flame retardant
- ★ Terminals: Solderable per MIL-STD-202 method 208
- ★ Polarity: Color band denotes cathode end
- ★ Mounting position: Any

**Zener Voltage 2.4 to 75 V
Power Dissipation 300 mW**

SOD-323



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

PARAMETER	SYMBOL	VALUE	UNIT
Power Dissipation	P_D	300	mW
Forward Voltage at $I_F = 10$ mA	V_F	0.9	V
Typical Thermal Resistance Junction to Ambient	$R_{\theta JA}$	417	°C/W
Junction Temperature	T_J	150	°C
Storage Temperature Range	T_{STG}	-55 to +150	°C

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Electrical Characteristics($T_A=25^{\circ}\text{C}$ unless otherwise noted)

Part Number	Device Marking Code	Zener Voltage Range $V_Z@I_{ZT}$				Maximum Zener Impedance		Maximum Reverse Leakage Current $I_R@V_R$	
		Min (V)	Nom (V)	Max (V)	I_{ZT} (mA)	$Z_{ZT}@I_{ZT}$ (Ω)	I_{ZT} (mA)	I_R (μA)	V_R (V)
MM3ZS2V4G	1C	2.28	2.4	2.56	5	100	5	120	1
MM3ZS2V7G	1D	2.5	2.7	2.9	5	110	5	120	1
MM3ZS3V0G	1E	2.8	3	3.2	5	120	5	50	1
MM3ZS3V3G	1F	3.1	3.3	3.5	5	130	5	20	1
MM3ZS3V6G	1H	3.4	3.6	3.8	5	130	5	10	1
MM3ZS3V9G	1J	3.7	3.9	4.1	5	130	5	5	1
MM3ZS4V3G	1K	4	4.3	4.6	5	130	5	5	1
MM3ZS4V7G	1M	4.4	4.7	5	5	130	5	2	1
MM3ZS5V1G	1N	4.8	5.1	5.4	5	130	5	2	1.5
MM3ZS5V6G	1P	5.2	5.6	6	5	80	5	1	2.5
MM3ZS6V2G	1R	5.8	6.2	6.6	5	50	5	1	3
MM3ZS6V8G	1X	6.4	6.8	7.2	5	30	5	0.5	3.5
MM3ZS7V5G	1Y	7	7.5	7.9	5	30	5	0.5	4
MM3ZS8V2G	1Z	7.7	8.2	8.7	5	30	5	0.5	5
MM3ZS9V1G	2A	8.5	9.1	9.6	5	30	5	0.5	6
MM3ZS10VG	2B	9.4	10	10.6	5	30	5	0.1	7
MM3ZS11VG	2C	10.4	11	11.6	5	30	5	0.1	8
MM3ZS12VG	2D	11.4	12	12.7	5	35	5	0.1	9
MM3ZS13VG	2E	12.4	13	14.1	5	35	5	0.1	10
MM3ZS15VG	2F	13.8	15	15.6	5	40	5	0.1	11
MM3ZS16VG	2H	15.3	16	17.1	5	40	5	0.1	12
MM3ZS18VG	2J	16.8	18	19.1	5	45	5	0.1	13
MM3ZS20VG	2K	18.8	20	21.2	5	50	5	0.1	15
MM3ZS22VG	2M	20.8	22	23.3	5	55	5	0.1	17
MM3ZS24VG	2N	22.8	24	25.6	5	60	5	0.1	19
MM3ZS27VG	2P	25.1	27	28.9	2	70	2	0.1	21
MM3ZS30VG	2R	28	30	32	2	80	2	0.1	23
MM3ZS33VG	2X	31	33	35	2	80	2	0.1	25
MM3ZS36VG	2Y	34	36	38	2	90	2	0.1	27
MM3ZS39VG	2Z	37	39	41	2	100	2	0.1	30
MM3ZS43VG	3A	40	43	46	2	130	2	0.1	33
MM3ZS47VG	3B	44	47	50	2	150	2	0.1	36
MM3ZS51VG	3C	48	51	54	2	180	2	0.1	39
MM3ZS56VG	3D	52	56	60	2	200	2	0.1	43
MM3ZS62VG	3E	58	62	66	2	215	2	0.1	47
MM3ZS68VG	3F	64	68	72	2	240	2	0.1	52
MM3ZS75VG	3H	70	75	79	2	265	2	0.1	56

V_{ZT} is tested with pulses 20 mS.

RATINGS AND CHARACTERISTIC CURVES MM3ZS2V4G THRU MM3ZS75VG

FIG.1 - POWER DERATING CURVE

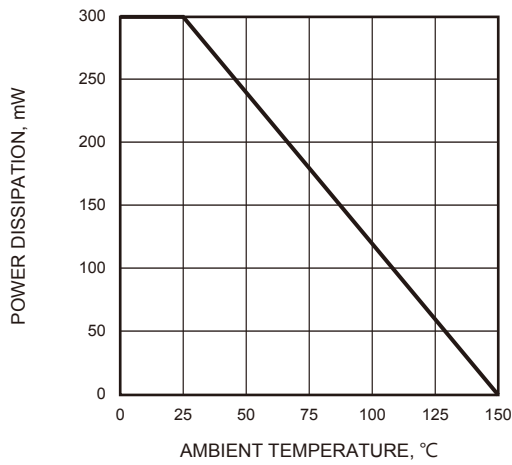


FIG.2 - TYPICAL ZENER BREAKDOWN CHARACTERISTICS

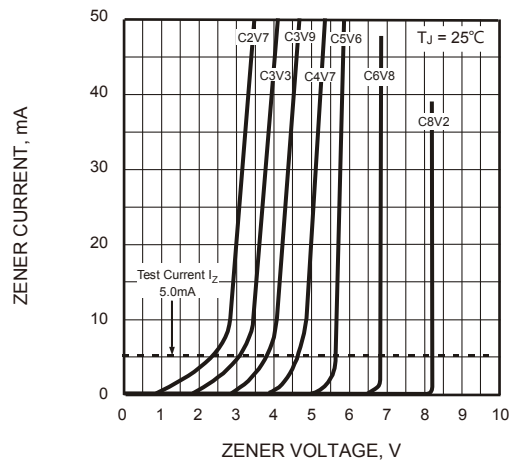


FIG.3 - TYPICAL ZENER BREAKDOWN CHARACTERISTICS

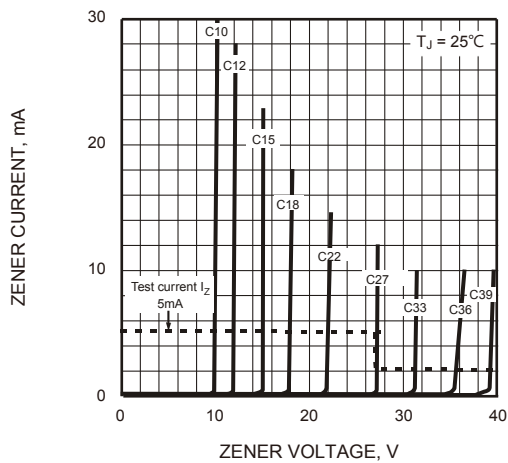


FIG.4 - TYPICAL TOTAL CAPACITANCE vs. NOMINAL ZENER VOLTAGE

