



MM3ZS2V0B THRU MM3ZS75VB

Surface Mount Zener Diode

Features

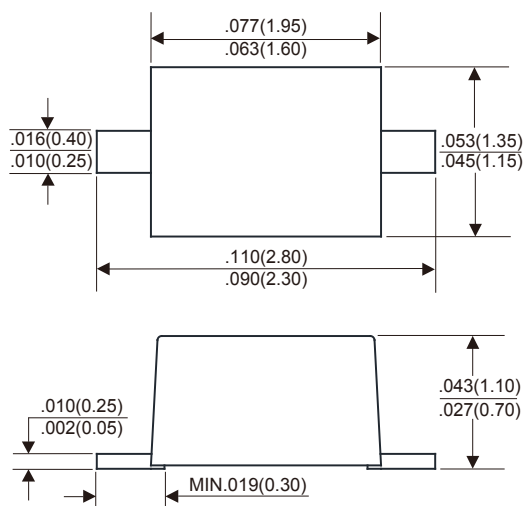
- ★ Small plastic package suitable for surface mounted design
- ★ High reliability
- ★ Zener voltage tolerance is $\pm 2\%$

Mechanical Data

- ★ Case: Molded plastic, SOD-323FL
- ★ Epoxy: UL 94V-0 rate flame retardant
- ★ Terminals: Solderable per MIL-STD-750 method 2026
- ★ Polarity: Color band denotes cathode end
- ★ Mounting position: Any

Zener Voltage 2.0 to 75 V
Power Dissipation 300 mW

SOD-323FL



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

T_A = 25°C unless otherwise noted

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 (Note 1)	R _{θJA}	417	°C/W
Junction Temperature Range	T _J	-55 to +150	°C
Storage Temperature Range	T _{STG}	-55 to +150	°C

NOTES : (1) Mounted on 0.2"x0.2"(5.0mmx5.0mm) copper pads to each terminal.

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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)
MM3ZS2V0B	B0	1.96	2	2.04	5	100	5	120	0.5
MM3ZS2V2B	C0	2.16	2.2	2.24	5	100	5	120	0.7
MM3ZS2V4B	1C	2.35	2.4	2.45	5	100	5	120	1
MM3ZS2V7B	1D	2.65	2.7	2.75	5	110	5	120	1
MM3ZS3V0B	1E	2.94	3	3.06	5	120	5	50	1
MM3ZS3V3B	1F	3.23	3.3	3.37	5	130	5	20	1
MM3ZS3V6B	1H	3.53	3.6	3.67	5	130	5	10	1
MM3ZS3V9B	1J	3.82	3.9	3.98	5	130	5	5	1
MM3ZS4V3B	1K	4.21	4.3	4.39	5	130	5	5	1
MM3ZS4V7B	1M	4.61	4.7	4.79	5	130	5	2	1
MM3ZS5V1B	1N	5	5.1	5.2	5	130	5	2	1.5
MM3ZS5V6B	1P	5.49	5.6	5.71	5	80	5	1	2.5
MM3ZS6V2B	1R	6.08	6.2	6.32	5	50	5	1	3
MM3ZS6V8B	1X	6.66	6.8	6.94	5	30	5	0.5	3.5
MM3ZS7V5B	1Y	7.35	7.5	7.65	5	30	5	0.5	4
MM3ZS8V2B	1Z	8.04	8.2	8.36	5	30	5	0.5	5
MM3ZS9V1B	2A	8.92	9.1	9.28	5	30	5	0.5	6
MM3ZS10VB	2B	9.8	10	10.2	5	30	5	0.1	7
MM3ZS11VB	2C	10.78	11	11.22	5	30	5	0.1	8
MM3ZS12VB	2D	11.76	12	12.24	5	35	5	0.1	9
MM3ZS13VB	2E	12.74	13	13.26	5	35	5	0.1	10
MM3ZS15VB	2F	14.7	15	15.3	5	40	5	0.1	11
MM3ZS16VB	2H	15.68	16	16.32	5	40	5	0.1	12
MM3ZS18VB	2J	17.64	18	18.36	5	45	5	0.1	13
MM3ZS20VB	2K	19.6	20	20.4	5	50	5	0.1	15
MM3ZS22VB	2M	21.56	22	22.44	5	55	5	0.1	17
MM3ZS24VB	2N	23.52	24	24.48	5	60	5	0.1	19
MM3ZS27VB	2P	26.46	27	27.54	5	70	2	0.1	21
MM3ZS30VB	2R	29.4	30	30.6	5	80	2	0.1	23
MM3ZS33VB	2X	32.34	33	33.66	5	80	2	0.1	25
MM3ZS36VB	2Y	35.28	36	36.72	5	90	2	0.1	27
MM3ZS39VB	2Z	38.22	39	39.78	2.5	100	2	2	30
MM3ZS43VB	3A	42.14	43	43.86	2.5	130	2	2	33
MM3ZS47VB	3B	46.06	47	47.94	2.5	150	2	2	36
MM3ZS51VB	3C	49.98	51	52.02	2.5	180	2	1	39
MM3ZS56VB	3D	54.88	56	57.12	2.5	180	2	1	43
MM3ZS62VB	3E	60.76	62	63.24	2.5	200	2	0.2	47
MM3ZS68VB	3F	66.64	68	69.36	2.5	250	2	0.2	52
MM3ZS75VB	3H	73.5	75	76.5	2.5	300	2	0.2	57

V_{ZT} is tested with pulses 20 mS.

Z_{ZT} is measured at I_Z by given a very small A.C. current signal.

RATINGS AND CHARACTERISTICS CURVES MM3ZS2V0B THRU MM3ZS75VB

FIG.1 - STEADY STATE POWER DERATING CURVE

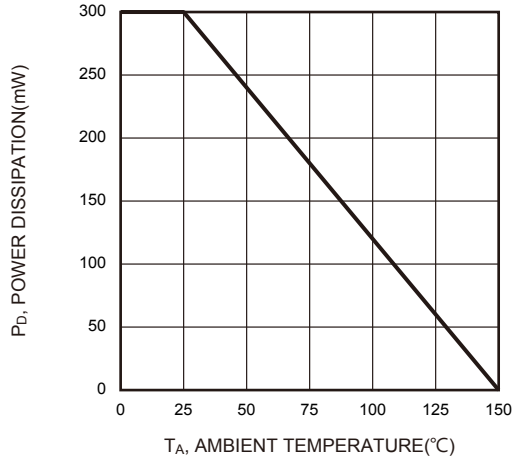


FIG.2 - TYPICAL FORWARD VOLTAGE

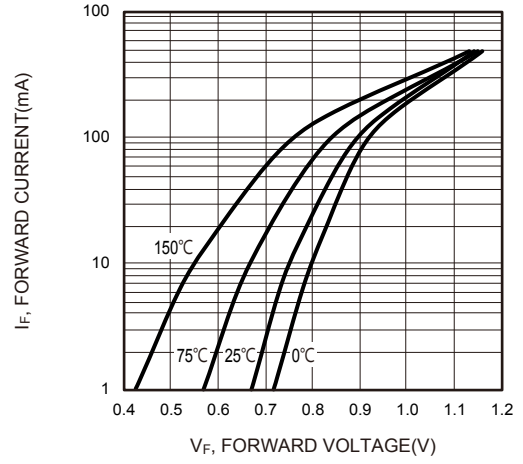


FIG.3 - TYPICAL TRANSIENT THERMAL IMPEDANCE

