



MM3Z2V4 THRU MM3Z75V

Surface Mount Zener Diode

Features

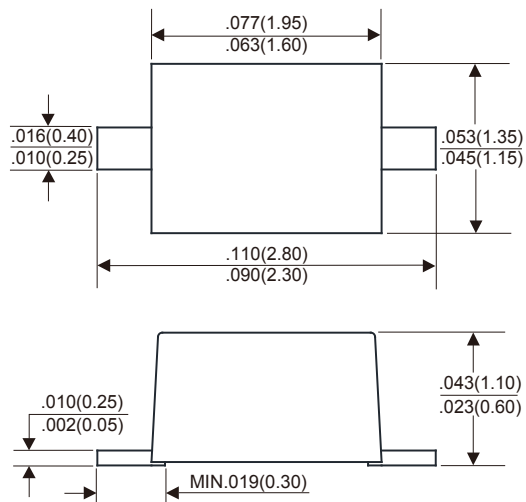
- ★ Ideally suited for automated assembly processes
- ★ High reliability
- ★ Zener voltage tolerance is $\pm 5\%$

Mechanical Data

- ★ Case: Molded plastic, SOD-323FL
- ★ 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 200 mW

SOD-323FL



Dimensions in inches and (millimeters)

MAXIMUM RATINGS

$T_A = 25^\circ\text{C}$ unless otherwise noted

PARAMETER	SYMBOL	VALUE	UNIT
Power dissipation	P_D	200	mW
Junction temperature range	T_J	-65 to +150	$^\circ\text{C}$
Storage temperature range	T_{STG}	-65 to +150	$^\circ\text{C}$

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

Part Number	Device Marking Code	Zener Voltage $V_Z@I_{ZT}$			Maximum Zener Impedance			Maximum Reverse Leakage Current $I_R@V_R$	
		Min (V)	Max (V)	I_{ZT} (mA)	$Z_{ZT}@I_{ZT}$ (Ω)	$Z_{ZK}@I_{ZK}$ (Ω)	I_{ZK} (mA)	I_R (μA)	V_R (V)
MM3Z2V4	Z0	2.28	2.52	5	100	564	1	45	1
MM3Z2V7	Z1	2.57	2.84	5	100	564	1	18	1
MM3Z3V0	Z2	2.85	3.15	5	100	564	1	9	1
MM3Z3V3	Z3	3.14	3.47	5	95	564	1	4.5	1
MM3Z3V6	Z4	3.42	3.78	5	90	564	1	4.5	1
MM3Z3V9	Z5	3.71	4.10	5	90	564	1	2.7	1
MM3Z4V3	Z6	4.09	4.52	5	90	564	1	2.7	1
MM3Z4V7	Z7	4.47	4.94	5	80	470	1	2.7	2
MM3Z5V1	Z8	4.85	5.36	5	60	451	1	1.8	2
MM3Z5V6	Z9	5.32	5.88	5	40	376	1	0.9	2
MM3Z6V2	ZA	5.89	6.51	5	10	141	1	2.7	4
MM3Z6V8	ZB	6.46	7.14	5	15	75	1	1.8	4
MM3Z7V5	ZC	7.11	7.86	5	15	75	1	0.9	5
MM3Z8V2	ZD	7.79	8.61	5	15	75	1	0.63	5
MM3Z9V1	ZE	8.65	9.56	5	15	94	1	0.45	6
MM3Z10V	ZF	9.50	10.50	5	20	141	1	0.18	7
MM3Z11V	ZG	10.45	11.55	5	20	141	1	0.09	8
MM3Z12V	ZH	11.40	12.60	5	25	141	1	0.09	8
MM3Z13V	ZJ	12.35	13.65	5	30	160	1	0.09	8
MM3Z15V	ZK	14.25	15.75	5	30	188	1	0.045	10.5
MM3Z16V	ZL	15.20	16.80	5	40	188	1	0.045	11.2
MM3Z18V	ZM	17.10	18.90	5	45	212	1	0.045	12.6
MM3Z20V	ZN	19.00	21.00	5	55	212	1	0.045	14.0
MM3Z22V	ZP	20.90	23.10	5	55	235	1	0.045	15.4
MM3Z24V	ZR	22.80	25.20	5	70	235	1	0.045	16.8
MM3Z27V	ZS	25.65	28.35	2	80	282	0.5	0.045	18.9
MM3Z30V	ZT	28.50	31.50	2	80	282	0.5	0.045	21.0
MM3Z33V	ZU	31.35	34.65	2	80	306	0.5	0.045	23.0
MM3Z36V	ZV	34.20	37.80	2	90	329	0.5	0.045	25.2
MM3Z39V	ZW	37.05	40.95	2	130	329	0.5	0.045	27.3
MM3Z43V	ZX	40.85	45.15	2	150	353	0.5	0.045	30.1
MM3Z47V	ZY	44.65	49.35	2	170	353	0.5	0.045	33.0
MM3Z51V	Z-	48.45	53.55	2	180	376	0.5	0.045	35.7
MM3Z56V	Z=	53.20	58.80	2	200	400	0.5	0.045	39.2
MM3Z62V	Z≡	58.90	65.10	2	215	423	0.5	0.045	43.4
MM3Z68V	Z>	64.60	71.40	2	240	447	0.5	0.045	47.6
MM3Z75V	Z<	71.25	78.75	2	255	470	0.5	0.045	52.5

RATINGS AND CHARACTERISTICS CURVES MM3Z2V4 THRU MM3Z75V

Fig.1 - Power Derating Curve

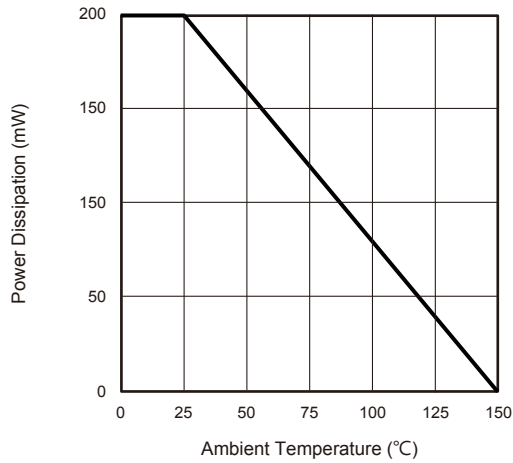


Fig.2 - Typical Instantaneous Forward Characteristics

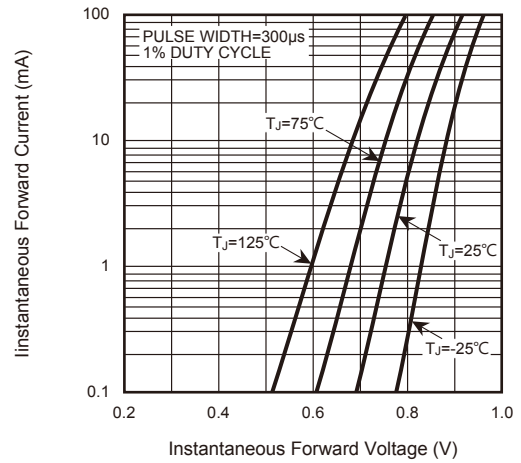


Fig.3 - Effect of Zener Current on Zener Impedance

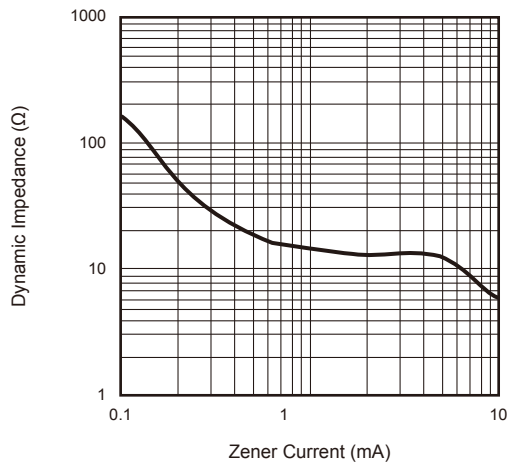


Fig.4 - V_R - I_R Characteristics

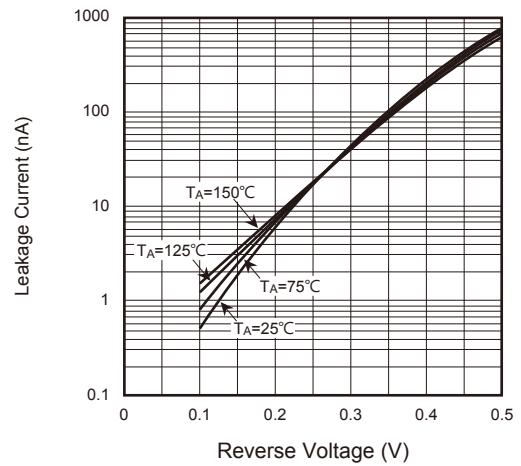


Fig.5 - V_R - C_T Characteristics

