

MMSZ4678 THRU MMSZ4717

Power Dissipation 0.5 W
VOLTAGE 1.8 to 43 V

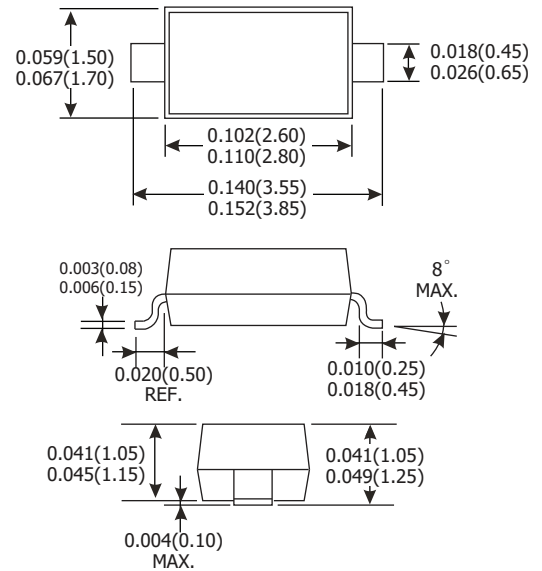
Features

- Low Zener Impedance
- Power Dissipation of 500mW
- High Stability and High Reliability

Mechanical Data

- SOD-123 Small Outline Plastic Package
- Polarity : Color band denotes cathode end
- Epoxy UL : 94V-0
- Mounting position : Any

SOD-123



Dimensions in inches and (millimeters)

Maximum Ratings And Thermal Characteristics

(Ratings at 25°C ambient temperature unless otherwise specified)

Items	Symbols	Value	Units
Power Dissipation	P _D	500 ⁽¹⁾	mW
Forward Voltage @ I _F =10mA	V _F	0.9 ⁽²⁾	V
Storage Temperature Range	T _s	-65 to + 150	°C

NOTE : (1) Device mounted on ceramic PCB : 7.6mm x 9.4mm x 0.87mm with pad areas 25mm²

(2) Short duration test pulse used to minimize self-heating effect

(3) f=1KHz

RATINGS AND CHARACTERISTIC CURVES MMSZ4678 THRU MMSZ4717

Electrical Characteristics

(Ratings at 25°C ambient temperature unless otherwise specified.)

Device	Marking	Zener Voltage Range				Maximum Reverse Current	
		Vz@Izt			Izt	Ir	Vr
		Min(V)	Nom(V)	Max(V)	μA	μA	V
MMSZ4678	CC	1.71	1.8	1.89	50	7.5	1
MMSZ4679	CD	1.90	2.0	2.10	50	5	1
MMSZ4680	CE	2.09	2.2	2.31	50	4	1
MMSZ4681	CF	2.28	2.4	2.52	50	2	1
MMSZ4682	CH	2.57	2.7	2.84	50	1	1
MMSZ4683	CJ	2.85	3.0	3.15	50	0.8	1
MMSZ4684	CK	3.13	3.3	3.47	50	7.5	1.5
MMSZ4685	CM	3.42	3.6	3.78	50	7.5	2
MMSZ4686	CN	3.70	3.9	4.10	50	5	2
MMSZ4687	CP	4.09	4.3	4.52	50	4	2
MMSZ4688	CT	4.47	4.7	4.94	50	10	3
MMSZ4689	CU	4.85	5.1	5.36	50	10	3
MMSZ4690	CV	5.32	5.6	5.88	50	10	4
MMSZ4691	CA	5.89	6.2	6.51	50	10	5
MMSZ4692	CX	6.46	6.8	7.14	50	10	5.1
MMSZ4693	CY	7.13	7.5	7.88	50	10	5.7
MMSZ4694	CZ	7.79	8.2	8.61	50	1	6.2
MMSZ4695	DC	8.27	8.7	9.14	50	1	6.6
MMSZ4696	DD	8.65	9.1	9.56	50	1	6.9
MMSZ4697	DE	9.50	10.0	10.50	50	1	7.6
MMSZ4698	OF	10.45	11.0	11.55	50	0.05	8.4
MMSZ4699	DH	11.40	12.0	12.60	50	0.05	9.1
MMSZ4700	DJ	12.35	13.0	13.65	50	0.05	9.8
MMSZ4701	DK	13.30	14.0	14.70	50	0.05	10.6
MMSZ4702	DM	14.25	15.0	15.75	50	0.05	11.4
MMSZ4703	DN	15.20	16.0	16.80	50	0.05	12.1
MMSZ4704	DP	16.15	17.0	17.85	50	0.05	12.9
MMSZ4705	DT	17.10	18.0	18.90	50	0.05	13.6
MMSZ4706	DU	18.05	19.0	19.95	50	0.05	14.4
MMSZ4707	DV	19.00	20.0	21.00	50	0.01	15.2
MMSZ4708	DA	20.90	22.0	23.10	50	0.01	16.7
MMSZ4709	DX	22.80	24.0	25.20	50	0.01	18.2
MMSZ4710	DY	23.75	25.0	26.25	50	0.01	19
MMSZ4711	EA	25.65	27.0	28.35	50	0.01	20.4
MMSZ4712	EC	26.60	28.0	29.40	50	0.01	21.2
MMSZ4713	ED	28.50	30.0	31.50	50	0.01	22.8
MMSZ4714	EE	31.35	33.0	34.65	50	0.01	25
MMSZ4715	EF	34.20	36.0	37.80	50	0.01	27.3
MMSZ4716	EH	37.05	39.0	40.95	50	0.01	29.6
MMSZ4717	EJ	40.85	43.0	45.15	50	0.01	32.6

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FIG.1-TEMPERATURE COEFFICIENTS

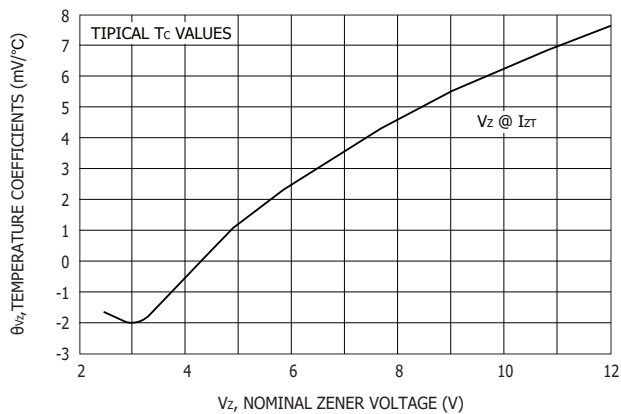


FIG.2-TEMPERATURE COEFFICIENTS

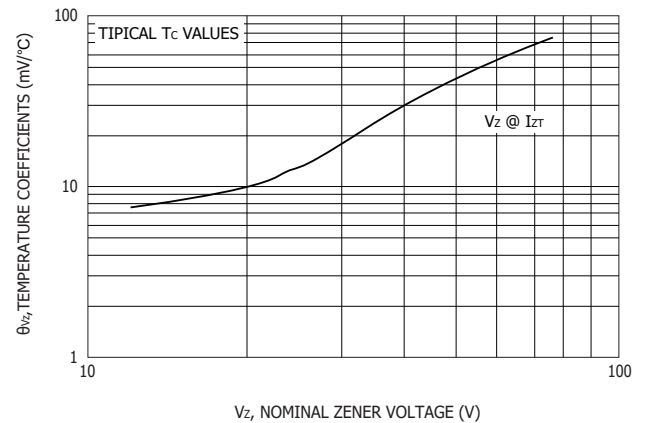


FIG.3-STEADY STATE POWER DERATING

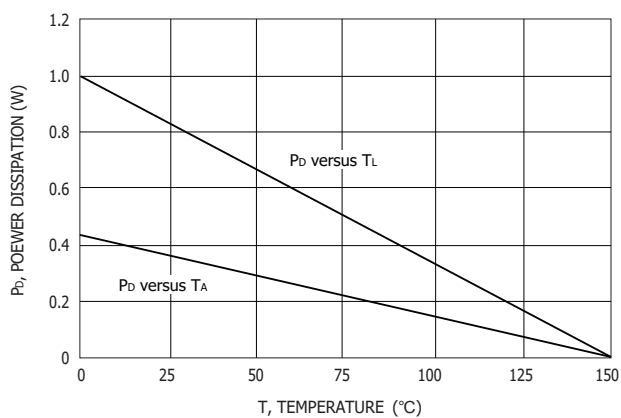


FIG.4-MAXIMUM NON-REPETITIVE SURGE POWER

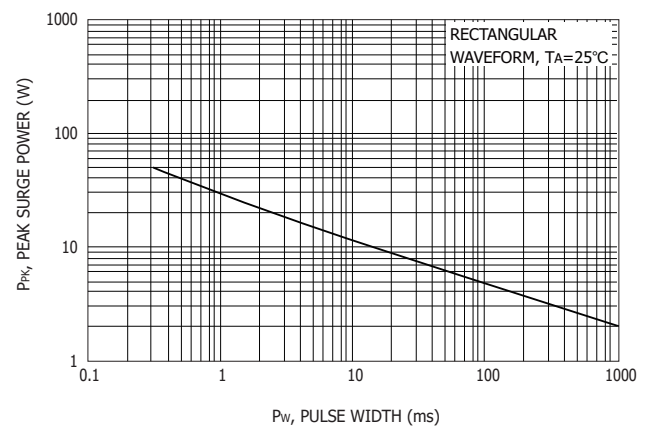


FIG.5-EFFECT OF ZENER VOLTAGE ON ZENER IMPEDANCE

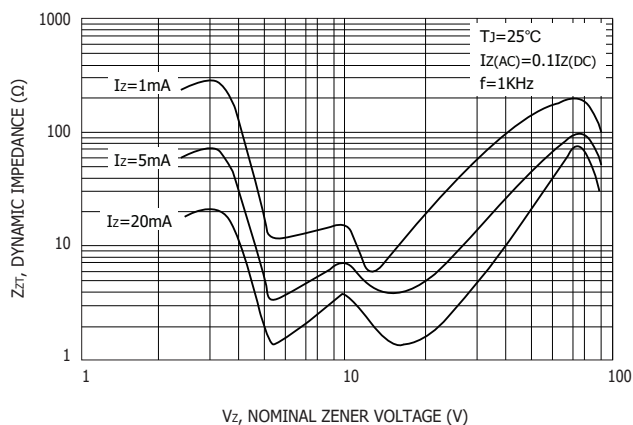
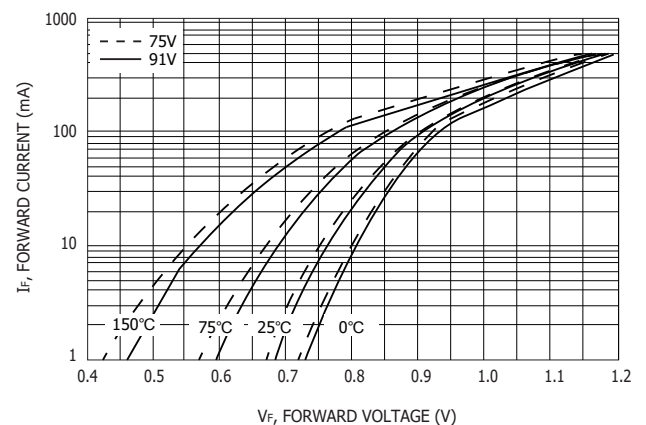


FIG.6-TYPICAL FORWARD VOLTAGE



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FIG.7-TYPICAL CAPACITANCE

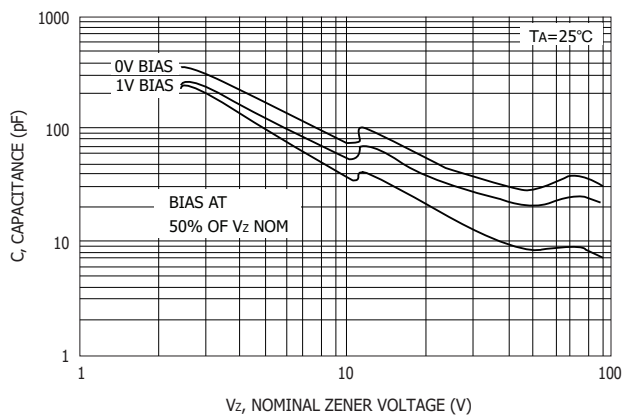


FIG.8-TYPICAL LEAKAGE CURRENT

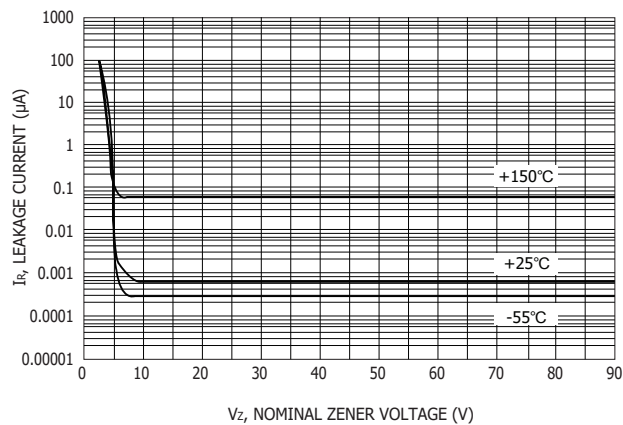


FIG.9-ZENER VOLTAGE VS. ZENER CURRENT

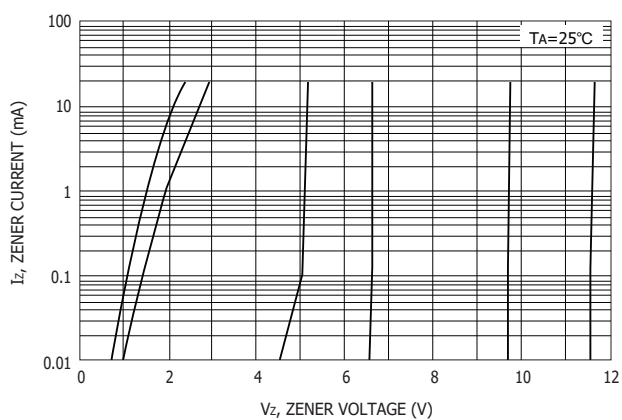


FIG.10-ZENER VOLTAGE VS. ZENER CURRENT

