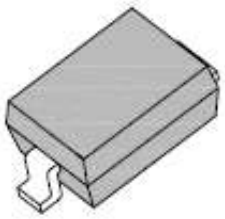
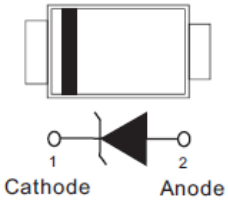
500mW Two Terminals SMD Zener Diodes



SOD-123

RoHS Compliant

HALOGEN FREE



Features

- Silicon Planar Zener Construction
- 500mW Power Dissipation
- Zener Voltage 4.3V to 43V
- RoHS Compliance and Halogen Free

Mechanical Data

Case:	SOD-123, molded plastic
Epoxy:	Plastic package has UL flammability 94V-0
Terminals:	Solderable per MIL-STD-750, Method 2026
Polarity:	Color band denotes cathode
Approx Weight:	0.01 grams

Maximum Ratings *($T_{Ambient}$=25ºC unless noted otherwise)*

Symbol	Description	Value	Unit	Conditions
P_{tot}	Max. Power Dissipation	500	mW	T_C=65 °C (Note1)
R_{thJA}	Thermal Resistance Junction to Ambient Air	540	°C/W	(Note2)
R_{thJC}	Thermal Resistance Junction to Case	170	°C/W	(Note1)
T_J	Max. Junction Temperature	150	°C	
T_{STG}	Storage Temperature Range	-55 to 150	°C	

Note1: Device mounted on an infinite heatsink.

Note2: Device mounted on a single-sided copper, mini pad.

MMSZ4687 – MMSZ4717

Electrical Characteristics *($T_{Ambient}$=25ºC unless noted otherwise)*

Part NO.	Marking Code	Norminal Zener Voltage @ I_{ZT}			Test Current	Max. Reverse Leakage Current I_R @ V_R	
		V_Z(V)					
		Nom.	Min.	Max.	I_{ZT}(mA)	I_R (μA)	V_R(V)
MMSZ4687	CP	4.3	4.09	4.52	0.05	4.00	2.0
MMSZ4688	CT	4.7	4.47	4.94	0.05	10.0	3.0
MMSZ4689	CU	5.1	4.85	5.36	0.05	10.0	3.0
MMSZ4690	CV	5.6	5.32	5.88	0.05	10.0	4.0
MMSZ4691	CA	6.2	5.89	6.51	0.05	10.0	5.0
MMSZ4692	CX	6.8	6.46	7.14	0.05	10.0	5.1
MMSZ4694	CZ	8.2	7.79	8.61	0.05	1.00	6.2
MMSZ4696	DD	9.1	8.65	9.56	0.05	1.00	6.9
MMSZ4697	DE	10	9.5	10.5	0.05	1.00	7.6
MMSZ4699	DH	12	11.4	12.6	0.05	0.05	9.1
MMSZ4700	DJ	13	12.4	13.7	0.05	0.05	9.8
MMSZ4701	DK	14	13.3	14.7	0.05	0.05	10.6
MMSZ4702	DM	15	14.3	15.8	0.05	0.05	11.4
MMSZ4703	DN	16	15.2	16.8	0.05	0.05	12.1
MMSZ4704	DP	17	16.2	17.9	0.05	0.05	12.9
MMSZ4705	DT	18	17.1	18.9	0.05	0.05	13.6
MMSZ4707	DV	20	19.0	21.0	0.05	0.01	15.2
MMSZ4708	DA	22	20.9	23.1	0.05	0.01	16.7
MMSZ4709	DZ	24	22.8	25.2	0.05	0.01	18.2
MMSZ4710	DY	25	23.8	26.3	0.05	0.01	19.0
MMSZ4711	EA	27	25.7	28.4	0.05	0.01	20.4
MMSZ4712	EC	28	26.6	29.4	0.05	0.01	21.2
MMSZ4713	ED	30	28.5	31.5	0.05	0.01	22.8
MMSZ4714	EE	33	31.4	34.7	0.05	0.01	25.0
MMSZ4715	EF	36	34.2	37.8	0.05	0.01	27.3
MMSZ4717	EJ	43	40.9	45.2	0.05	0.01	32.6

Typical Characteristics Curves

Fig.1- Power Derating Curve

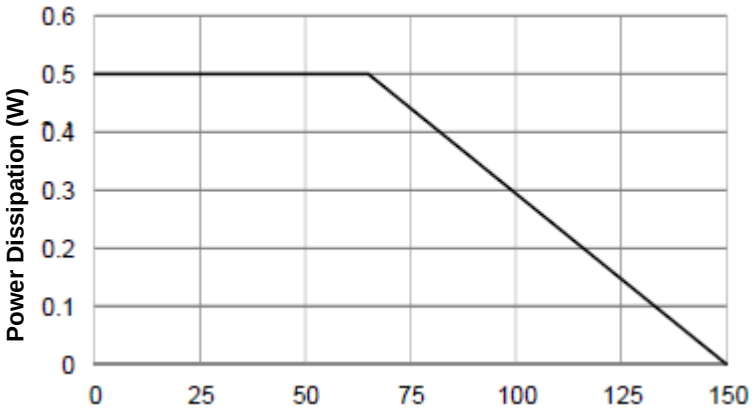


Fig.2- Typical Junction capacitance

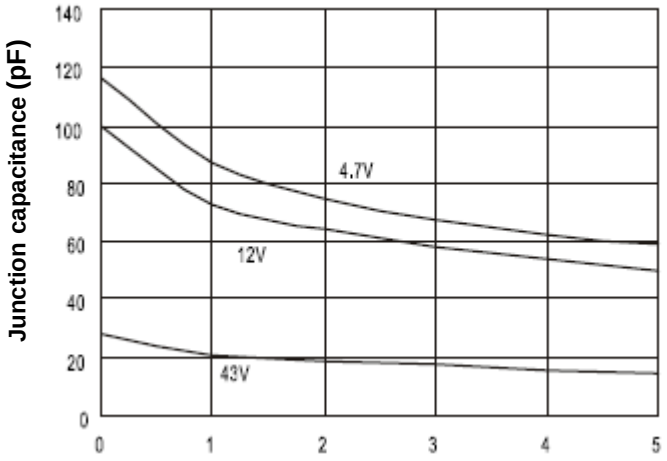


Fig.3- Typical Reverse Characteristics

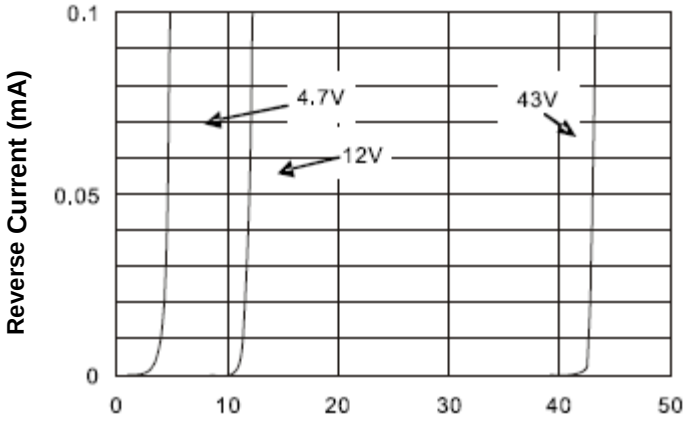
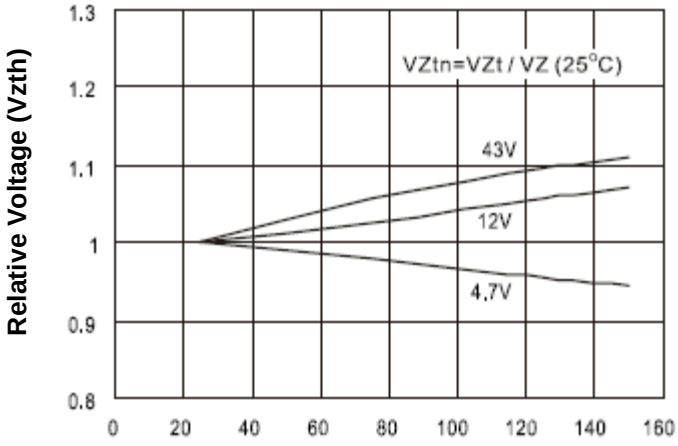
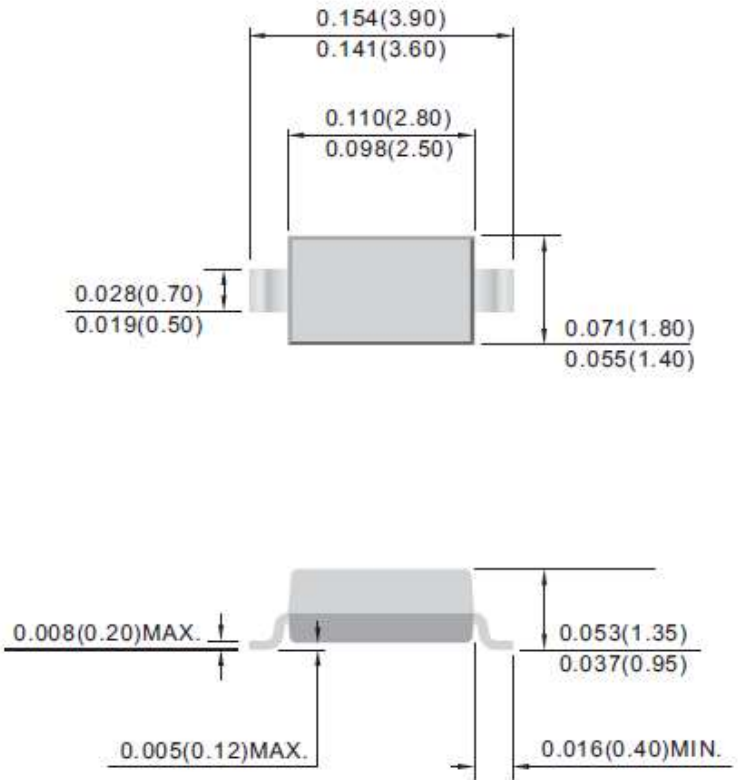


Fig.4- Junction Temperature of Working Voltage vs. Junction Temperature

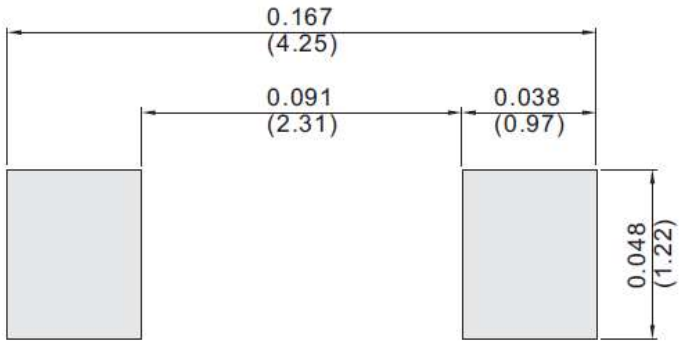


Dimensions in inch (mm)



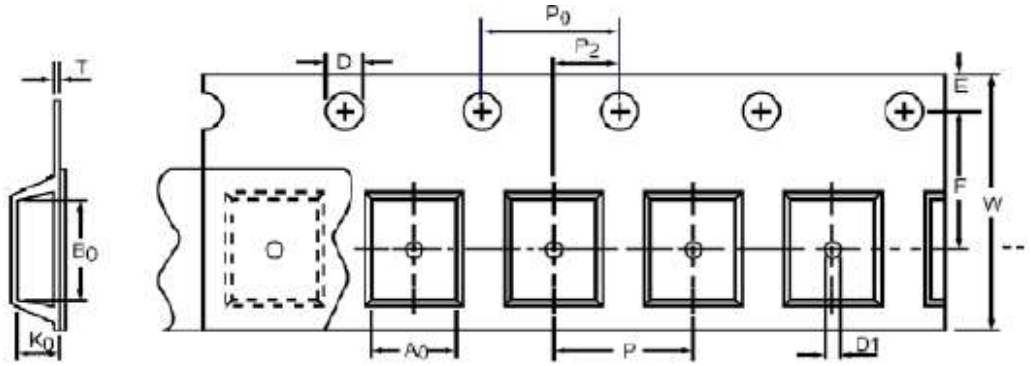
SOD-123

Mounting Pad Layout in inch (mm)



Packing Information:

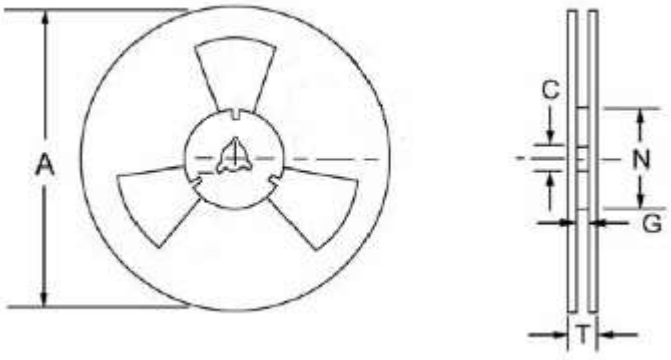
Carrier Tape Dimensions (in mm)



Product Type	A0	B0	K0	D	P0	P
	See Note			1.55±0.05	4.0±0.1	4.0±0.1
SOD-123	**W**	**E**	**T**	**D1**	**F**	**P2**
	8.0+0.15/-0.3	1.75±0.10	0.20±0.05	1.0±0.1	3.5±0.05	2.0±0.05

Note: Symbol A0, B0, K0 are determined by the maximum dimensions of the component size. The clearance between the component and the cavity must be within 0.05 mm (0.002'') min. to 0.50 mm (0.02'') max. for 8 mm tape.

Reel Dimensions (in mm)



A	C	G	N	T
178.0±2.0	13.5±1.0	9.9 max.	50 min.	14.4 max.

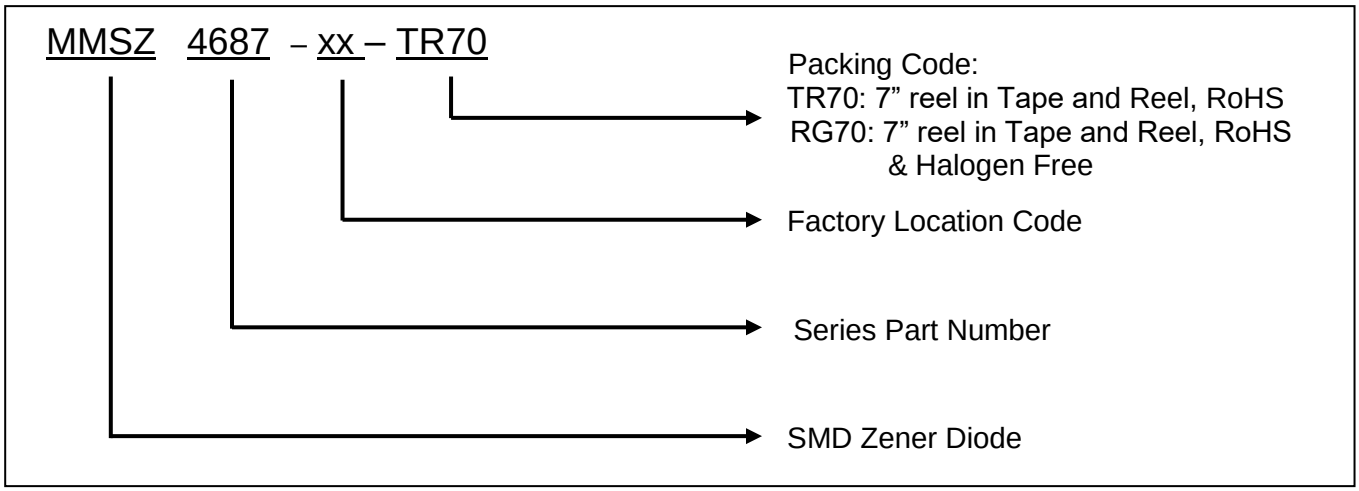
Packing Quantity Information:

Quantity	PCS per Inner Box	PCS per Carton
RG70 Tape & Reel	3000/Reel	240000

Carton Size Information:

Cartoon Size
390X270X400 (in mm)

Ordering Information



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