

FEATURES AND BENEFITS

Product Summary		
P_D	500mW	@25 °C
V_Z	1.8 – 39V	@25 °C
I_{ZT}	50uA	@25 °C

- Constant Voltage control
- Wide Voltage Range Selection 1.8V to 39V
- RoHS Compliant / Green EMC UL Flammability Classification Rating 94V-0
- Matte Tin (Sn) Lead finish Solderable per MIL-STD-202, Method 208
- Moisture Sensitivity: Level 1 per J-STD-020
- Weight: 0.01 grams (Approximate)

SOD-123



Cathode  Anode

Maximum Ratings (TA = 25 °C unless otherwise noted)			
PARAMETER	SYMBOL	VALUE	UNIT
Power Dissipation	P_{TM}	500	mW
Junction Temperature	T_J	150	°C
Storage Temperature	T_{STG}	-55 to +125	°C

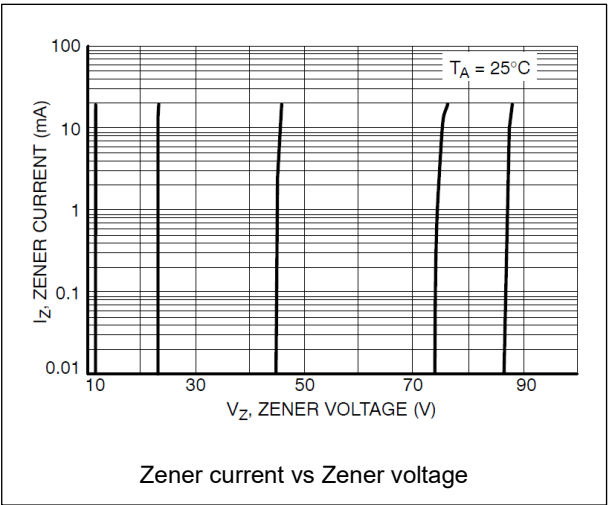
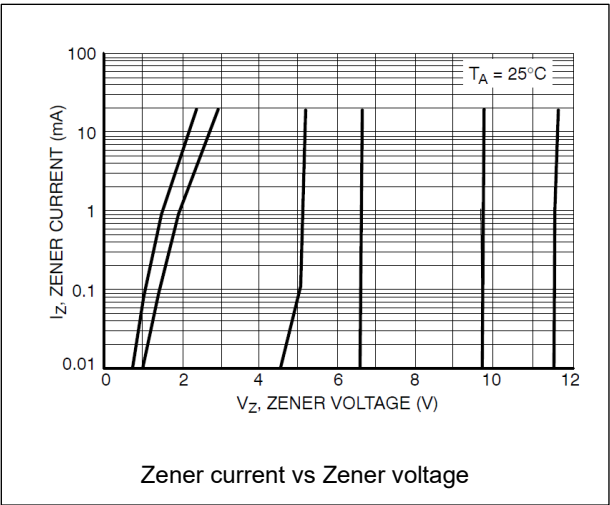
ELECTRICAL CHARACTERISTICS (TA = 25 °C unless otherwise noted)

*1 Pulse width = 10 ms

Device	Zener Voltage			I _{ZT}	Leakage Current		Marking
	V _Z @I _{ZT} (Volts)				I _R @V _R	V _R	
	Min	Nom	Max		uA	Volts	
MMSZ4678	1.71	1.8	1.89	50	7.5	1	CC
MMSZ4679	1.9	2	2.1	50	5	1	CD
MMSZ4680	2.09	2.2	2.31	50	4	1	CE
MMSZ4681	2.28	2.4	2.52	50	2	1	CF
MMSZ4682	2.565	2.7	2.835	50	1	1	CH
MMSZ4683	2.85	3	3.15	50	0.8	1	CJ
MMSZ4684	3.135	3.3	3.465	50	7.5	1.5	CK
MMSZ4685	3.42	3.6	3.78	50	7.5	2	CM

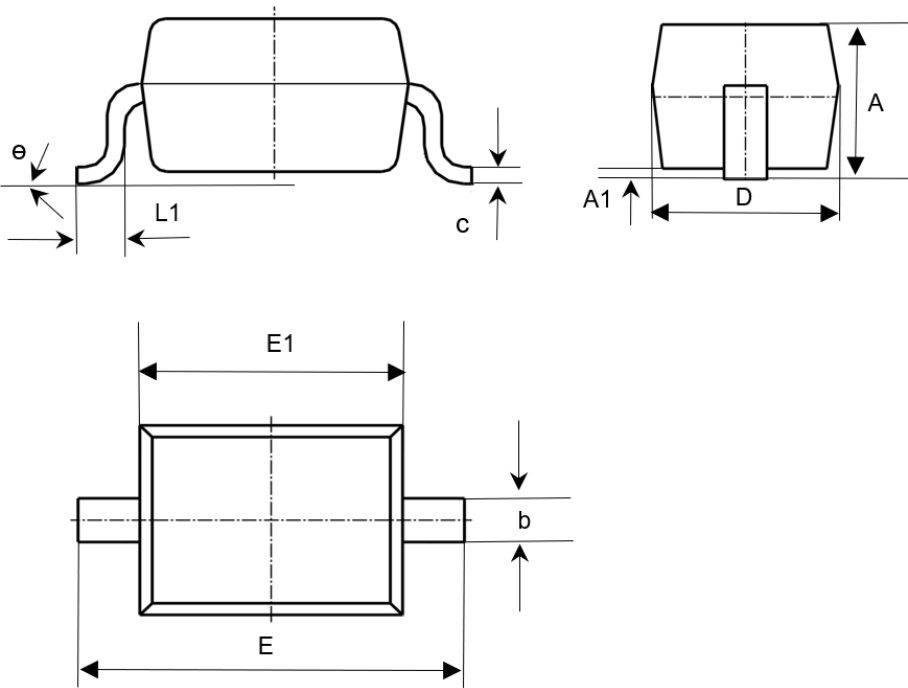
Device	Zener Voltage			I _{ZT}	Leakage Current		Marking
	V _Z @I _{ZT} (Volts)				IR @VR	VR	
	Min	Nom	Max	uA	uA	uA	
MMSZ4686	3.705	3.9	4.095	50	5	2	CN
MMSZ4687	4.085	4.3	4.515	50	4	2	CP
MMSZ4688	4.465	4.7	4.935	50	10	3	CT
MMSZ4689	4.845	5.1	5.355	50	10	3	CU
MMSZ4690	5.32	5.6	5.88	50	10	4	CV
MMSZ4691	5.89	6.2	6.51	50	10	5	CA
MMSZ4692	6.46	6.8	7.14	50	10	5.1	CX
MMSZ4693	7.125	7.5	7.875	50	10	5.7	CY
MMSZ4694	7.79	8.2	8.61	50	1	6.2	CZ
MMSZ4695	8.265	8.7	9.135	50	1	6.6	DC
MMSZ4696	8.645	9.1	9.555	50	1	6.9	DD
MMSZ4697	9.5	10	10.5	50	1	7.6	DE
MMSZ4698	10.45	11	11.55	50	0.05	8.4	DF
MMSZ4699	11.4	12	12.6	50	0.05	9.1	DH
MMSZ4700	12.35	13	13.65	50	0.05	9.8	DJ
MMSZ4701	13.3	14	14.7	50	0.05	10.6	DK
MMSZ4702	14.25	15	15.75	50	0.05	11.4	DM
MMSZ4703	15.2	16	16.8	50	0.05	12.1	DN
MMSZ4704	16.15	17	17.85	50	0.05	12.9	DP
MMSZ4705	17.1	18	18.9	50	0.05	13.6	DT
MMSZ4706	18.05	19	19.95	50	0.05	14.4	DU
MMSZ4707	19	20	21	50	0.01	15.2	DV
MMSZ4708	20.9	22	23.1	50	0.01	16.7	DA
MMSZ4709	22.8	24	25.2	50	0.01	18.2	DX
MMSZ4710	23.75	25	26.25	50	0.01	19	DY
MMSZ4711	25.65	27	28.35	50	0.01	20.4	EA
MMSZ4712	26.6	28	29.4	50	0.01	21.2	EC
MMSZ4713	28.5	30	31.5	50	0.01	22.8	ED
MMSZ4714	31.35	33	34.65	50	0.01	25	EE
MMSZ4715	34.2	36	37.8	50	0.01	27.3	EF
MMSZ4716	37.05	39	40.95	50	0.01	29.6	EH

RATING AND CHARACTERISTICS CURVES



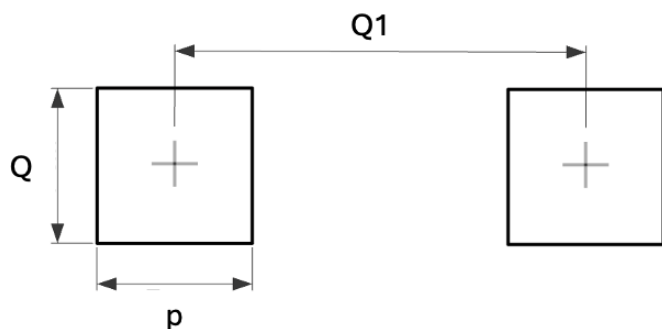
PACKAGE OUTLINE DIMENSIONS

SOD-123



Symbol	MIN	MAX
A	1.05	1.25
A1	0.00	0.10
b	0.45	0.65
c	0.08	0.15
D	1.50	1.70
E	3.55	3.85
E1	2.60	2.80
L1	0.25	0.45
θ	0°	8°
Unit: mm		

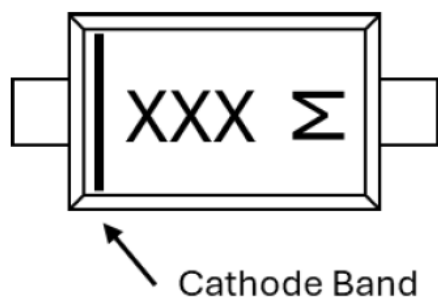
SUGGESTED PAD LAYOUT



Symbol	Typ
Q1	3.24
Q	1.0
p	0.8
Unit: mm	

DEVICE MARKING CODE AND ORDERING INFORMATION

DEVICE	Marking	Quantity	Packing
MMSZ46 series	Refer to Device Marking	3000/7"Reel	Tape & Reel



XXX: Product Marking Code

Σ : Date Code (Rotate 90° counterclockwise)

Odd Year	Even Year
1	E
2	F
3	H
4	J
5	K
6	L
7	N
8	P
9	U
T	X
V	Y
C	Z

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