

RoHS Compliant Product
A suffix of "-C" specifies halogen & lead-free

FEATURES

- Planar Die Construction
- General Purpose Dissipation
- Ideally Suited for Automated Assembly Process

SOD-123



MECHANICAL DATA

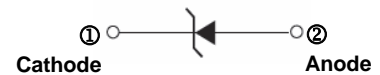
- Case: SOD-123, Plastic
- Case Material – UL Flammability Rating Classification 94V-0
- Moisture Sensitivity: Level 1 per J-STD-020A
- Terminals: Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band
- Weight: 0.01 grams(approx.)

PACKAGE INFORMATION

Package	MPQ	Leader Size
SOD-123	3K	7 inch

ORDER INFORMATION

Part Number	Type
MMSZ46xx-C	Lead (Pb)-free and Halogen-free



ABSOLUTE MAXIMUM RATINGS (T_A=25°C unless otherwise specified)

Parameter	Symbol	Rating	Unit
Power Dissipation ²	P _D	500	mW
Operating Junction and Storage Temperature Range	T _J , T _{STG}	150, -55~150	°C
Maximum Regulator Current	I _{ZM}	P _D /V _Z	mA

ELECTRICAL CHARACTERISTICS (T_A=25°C unless otherwise specified)

Type Number	Marking	Zener Voltage Range				Maximum Reverse Leakage Current	
		V _Z @I _{ZT}			I _{ZT}	I _R @V _R	
		Min(V)	Nom(V)	Max(V)	µA	µA	V
MMSZ4678-C	CC	1.71	1.8	1.89	50	7.5	1
MMSZ4679-C	CD	1.9	2	2.1	50	5	1
MMSZ4680-C	CE	2.09	2.2	2.31	50	4	1
MMSZ4681-C	CF	2.28	2.4	2.52	50	2	1
MMSZ4682-C	CH	2.565	2.7	2.835	50	1	1
MMSZ4683-C	CJ	2.85	3	3.15	50	0.8	1
MMSZ4684-C	CK	3.135	3.3	3.465	50	7.5	1.5

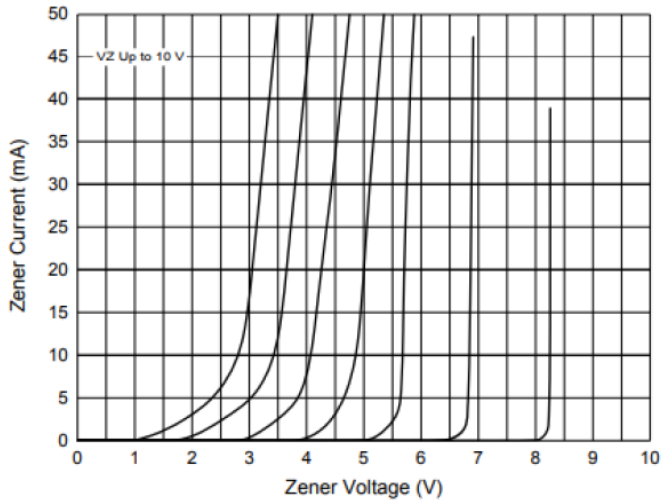
ELECTRICAL CHARACTERISTICS ($T_A=25^\circ\text{C}$ unless otherwise specified)

Type Number	Marking	Zener Voltage Range				Maximum Reverse Leakage Current	
		$V_Z@I_{ZT}$			I_{ZT}	$I_R@V_R$	
		Min(V)	Nom(V)	Max(V)	μA	μA	V
MMSZ4685-C	CM	3.42	3.6	3.78	50	7.5	2
MMSZ4686-C	CN	3.705	3.9	4.095	50	5	2
MMSZ4687-C	CP	4.085	4.3	4.515	50	4	2
MMSZ4688-C	CT	4.465	4.7	4.935	50	10	3
MMSZ4689-C	CU	4.845	5.1	5.355	50	10	3
MMSZ4690-C	CV	5.32	5.6	5.88	50	10	4
MMSZ4691-C	CA	5.89	6.2	6.51	50	10	5
MMSZ4692-C	CX	6.46	6.8	7.14	50	10	5.1
MMSZ4693-C	CY	7.125	7.5	7.875	50	10	5.7
MMSZ4694-C	CZ	7.79	8.2	8.61	50	1	6.2
MMSZ4695-C	DC	8.265	8.7	9.135	50	1	6.6
MMSZ4696-C	DD	8.645	9.1	9.555	50	1	6.9
MMSZ4697-C	DE	9.5	10	10.5	50	1	7.6
MMSZ4698-C	DF	10.45	11	11.55	50	0.05	8.4
MMSZ4699-C	DH	11.4	12	12.6	50	0.05	9.1
MMSZ4700-C	DJ	12.35	13	13.65	50	0.05	9.8
MMSZ4701-C	DK	13.3	14	14.7	50	0.05	10.6
MMSZ4702-C	DM	14.25	15	15.75	50	0.05	11.4
MMSZ4703-C	DN	15.2	16	16.8	50	0.05	12.1
MMSZ4704-C	DP	16.15	17	17.85	50	0.05	12.9
MMSZ4705-C	DT	17.1	18	18.9	50	0.05	13.6
MMSZ4706-C	DU	18.05	19	19.95	50	0.05	14.4
MMSZ4707-C	DV	19	20	21	50	0.01	15.2
MMSZ4708-C	DA	20.9	22	23.1	50	0.01	16.7
MMSZ4709-C	DX	22.8	24	25.2	50	0.01	18.2
MMSZ4710-C	DY	23.75	25	26.25	50	0.01	19
MMSZ4711-C	EA	25.65	27	28.35	50	0.01	20.4
MMSZ4712-C	EC	26.6	28	29.4	50	0.01	21.2
MMSZ4713-C	ED	28.5	30	31.5	50	0.01	22.8
MMSZ4714-C	EE	31.35	33	34.65	50	0.01	25
MMSZ4715-C	EF	34.2	36	37.8	50	0.01	27.3
MMSZ4716-C	EH	37.05	39	40.95	50	0.01	29.6

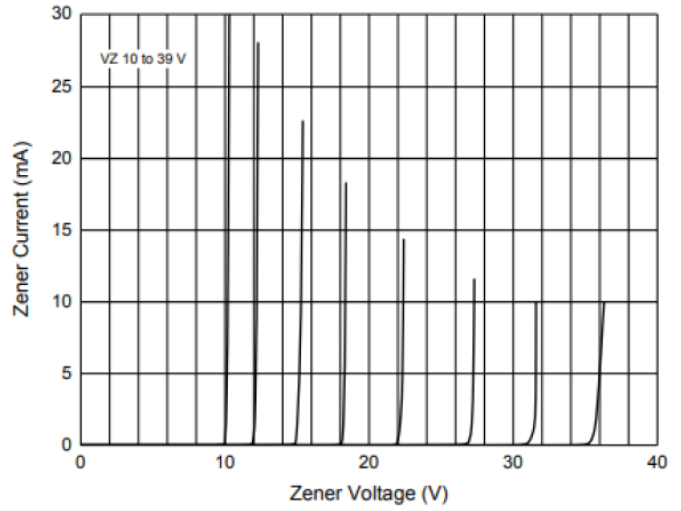
Note:
1. Pulse width=10ms

CHARACTERISTIC CURVES

Typical Zener Breakdown

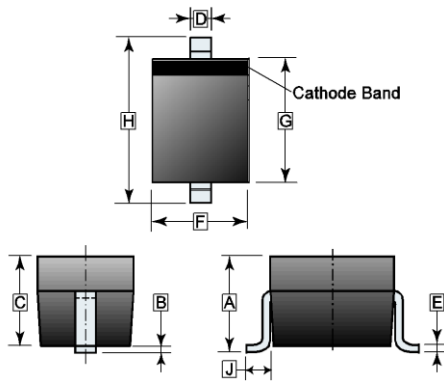


Typical Zener Breakdown



PACKAGE OUTLINE DIMENSIONS

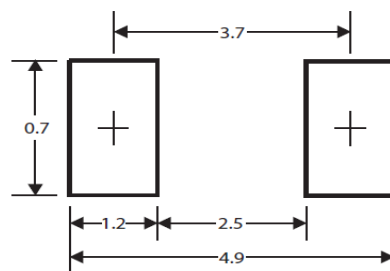
SOD-123



REF.	Millimeter	
	Min.	Max.
A	1.15 REF	
B	0.10 REF	
C	1.00	1.30
D	0.30	0.78
E	0.05	0.25
F	1.45	1.80
G	2.55	2.90
H	3.10	3.85
J	0.50 REF	

MOUNTING PAD LAYOUT

SOD-123



*Dimensions in millimeters