Elektronische Bauelemente

MMSZ46xx Series

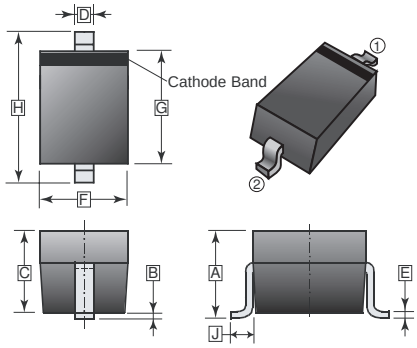
350mW, SOD-123 Series
Surface Mount Zener Diodes

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



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	0.95	1.35	F	1.40	1.80
B	0.10 REF.		G	2.55	2.85
C	1.05	1.15	H	3.55	3.85
D	0.30	0.78	J	0.50 REF.	
E	0.08	0.25			

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

ABSOLUTE MAXIMUM RATINGS (T_A=25℃ unless otherwise specified)

Parameter	Symbol	Rating	Unit
Forward Voltage @ I_F=10mA	V_F	0.9	V
Power Dissipation	P_D	350	mW
Thermal Resistance Junction to Ambient Air	$R_{\theta JA}$	357	℃ / W
Operating and Storage Temperature Range	T_J, T_{STG}	-65 ~ 150	℃

Note:
1. Device mount on ceramic PCB: 5 mm x 7 mm with pad areas 35 mm^2

ELECTRICAL CHARACTERISTICS (T_A=25℃ unless otherwise specified)

Type Number	Marking	Zener Voltage Range [1]				Maximum Reverse Leakage Current	
		V_Z@I_{ZT}			I_{ZT}	I_R@V_R	
		Min(V)	Nom(V)	Max(V)	μA	μA	V
MMSZ4678	CC	1.71	1.8	1.89	50	7.5	1
MMSZ4679	CD	1.9	2	2.1	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	2.565	2.7	2.835	50	1	1
MMSZ4683	CJ	2.85	3	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	3.7	3.9	4.1	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	9.5	10	10.5	50	1	7.6
MMSZ4698	DF	10.45	11	11.55	50	0.05	8.4
MMSZ4699	DH	11.4	12	12.6	50	0.05	9.1
MMSZ4700	DJ	12.35	13	13.65	50	0.05	9.8
MMSZ4701	DK	13.3	14	14.7	50	0.05	10.6
MMSZ4702	DM	14.25	15	15.75	50	0.05	11.4
MMSZ4703[1]	DN	15.2	16	16.8	50	0.05	12.1
MMSZ4704	DP	16.15	17	17.85	50	0.05	12.9
MMSZ4705	DT	17.1	18	18.9	50	0.05	13.6
MMSZ4706	DU	18.05	19	19.95	50	0.05	14.4
MMSZ4707	DV	19	20	21	50	0.01	15.2
MMSZ4708	DA	20.9	22	23.1	50	0.01	16.7
MMSZ4709	DX	22.8	24	25.2	50	0.01	18.2
MMSZ4710	DY	23.75	25	26.25	50	0.01	19
MMSZ4711[1]	EA	25.65	27	28.35	50	0.01	20.4
MMSZ4712	EC	26.6	28	29.4	50	0.01	21.2
MMSZ4713	ED	28.5	30	31.5	50	0.01	22.8
MMSZ4714	EE	31.35	33	34.65	50	0.01	25
MMSZ4715	EF	34.2	36	37.8	50	0.01	27.3
MMSZ4716	EH	37.05	39	40.95	50	0.01	29.6
MMSZ4717	EJ	40.85	43	45.15	50	0.01	32.6

Note:
1.Nomin Zener voltage is measured with the device junction in thermal equilibrium at T_L=30℃±1℃