

Features

- High reliability
- Very sharp reverse characteristic
- Low reverse current level
- Zener Voltage 2.4V~47V

SOD-123



Mechanical Data

- **Package:** SOD123
- **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102
- **Polarity:** Cathode line denotes the cathode end



■ Maximum Ratings ($T_a=25^{\circ}\text{C}$ Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	VALUE
Power Dissipation	P_D	mW	500
Storage Temperature Range	T_{stg}	$^{\circ}\text{C}$	-55~+150
Maximum Junction Temperature	T_J	$^{\circ}\text{C}$	-55~+150
Maximum Regulator Current	I_{ZM}	mA	P_D / V_Z
Maximum Forward Voltage ($I_F=10\text{mA}_{dc}$)	V_F	V	0.9
Thermal Resistance Junction to Ambient Air*	$R_{\theta JA}$	$^{\circ}\text{C} / \text{W}$	250

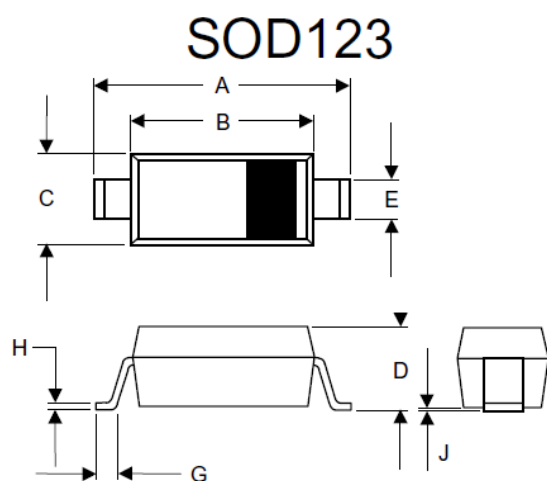
*Device mounted on ceramic PCB: 7.6mm×9.4mm×0.87mm with pad areas 25mm²

■Electrical Characteristics (T_a=25°C Unless otherwise specified)

TypeNumber	Device Marking		V _a (V) at I _{zt}			Z _{zt} (Ω)		Z _{zk} (Ω)		I _R (μA)@V _R	
			min.	typ.	max.	I _{zt} (mA)	max.	I _{zk} (mA)	max.	uA	V _R (V)
MMSZ5221B	WX	C1	2.28	2.4	2.52	20	30	0.25	1200	100	1.0
MMSZ5222B	WZ	C2	2.38	2.5	2.63	20	30	0.25	1250	100	1.0
MMSZ5223B	W1	C3	2.57	2.7	2.84	20	30	0.25	1300	75	1.0
MMSZ5225B	W2	C5	2.85	3.0	3.15	20	29	0.25	1600	50	1.0
MMSZ5226B	W3	G1	3.14	3.3	3.47	20	28	0.25	1600	25	1.0
MMSZ5227B	W4	G2	3.42	3.6	3.78	20	24	0.25	1700	15	1.0
MMSZ5228B	W5	G3	3.71	3.9	4.10	20	23	0.25	1900	10	1.0
MMSZ5229B	W6	G4	4.09	4.3	4.52	20	22	0.25	2000	5	1.0
MMSZ5230B	W7	G5	4.47	4.7	4.94	20	19	0.25	1900	5	2.0
MMSZ5231B	W8	E1	4.85	5.1	5.36	20	17	0.25	1600	5	2.0
MMSZ5232B	W9	E2	5.32	5.6	5.88	20	11	0.25	1600	5	3.0
MMSZ5234B	WA	E4	5.89	6.2	6.51	20	7	0.25	1000	5	4.0
MMSZ5235B	WB	E5	6.46	6.8	7.14	20	5	0.25	750	3	5.0
MMSZ5236B	WC	F1	7.13	7.5	7.88	20	6	0.25	500	3	6.0
MMSZ5237B	WD	F2	7.79	8.2	8.61	20	8	0.25	500	3	6.5
MMSZ5239B	WE	F4	8.65	9.1	9.56	20	10	0.25	600	3	7.0
MMSZ5240B	WF	F5	9.50	10	10.50	20	17	0.25	600	3	8.0
MMSZ5241B	WG	H1	10.45	11	11.55	20	22	0.25	600	2	8.4
MMSZ5242B	WH	H2	11.40	12	12.60	20	30	0.25	600	1	9.1
MMSZ5243B	WI	H3	12.35	13	13.65	9.5	13	0.25	600	0.5	9.9
MMSZ5244B	WW	H4	13.3	14	14.7	9	15	0.25	600	0.1	10
MMSZ5245B	WJ	H5	14.25	15	15.75	8.5	16	0.25	600	0.1	11.0
MMSZ5246B	WK	J1	15.20	16	16.80	7.8	17	0.25	600	0.1	12.0
MMSZ5248B	WL	J3	17.10	18	18.90	7	21	0.25	600	0.1	14.0
MMSZ5250B	WM	J5	19.00	20	21.00	6.2	25	0.25	600	0.1	15.0
MMSZ5251B	WN	K1	20.90	22	23.10	5.6	29	0.25	600	0.1	17.0
MMSZ5252B	WO	K2	22.80	24	25.20	5.2	33	0.25	600	0.1	18.0

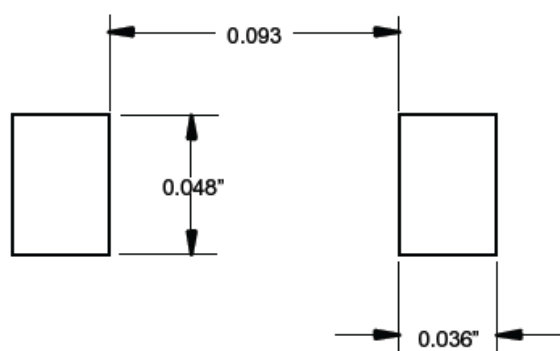
MMSZ5254B	WP	K4	25.65	27	28.35	4.6	41	0.25	600	0.1	21.0
MMSZ5256B	WQ	M1	28.50	30	31.50	4.2	49	0.25	600	0.1	23.0
MMSZ5257B	WR	M2	31.35	33	34.65	3.8	58	0.25	700	0.1	25.0
MMSZ5258B	WS	M3	34.20	36	37.80	3.4	70	0.25	700	0.1	27.0
MMSZ5259B	WT	M4	37.05	39	40.95	3.2	80	0.25	800	0.1	30.0
MMSZ5260B	WU	M5	40.85	43	45.15	3	93	0.25	900	0.1	33.0
MMSZ5261B	WV	N1	44.65	47	49.35	2.7	105	0.25	1000	0.1	36.0

■ Outline Dimensions



DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.140	.152	3.55	3.85	
B	.100	.112	2.55	2.85	
C	.055	.071	1.40	1.80	
D	-----	.053	-----	1.35	
E	.012	.031	0.30	.78	
G	.006	-----	0.15	-----	
H	-----	.01	-----	.25	
J	-----	.006	-----	.15	

■ Soldering Footprint



Unit: inches