

Features

- Low Forward Voltage Drop
- For General Purpose Applications
- Epoxy Meets UL 94 V-0 Flammability Rating
- Halogen Free. "Green" Device (Note 1)
- Moisture Sensitivity Level 1
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +125°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance: 250°C/W Junction to Ambient

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
SD101AW	S1	60V	42V	60V
SD101BW	S2	50V	35V	50V
SD101CW	S3	40V	28V	40V

Electrical Characteristics @ 25°C Unless Otherwise Specified

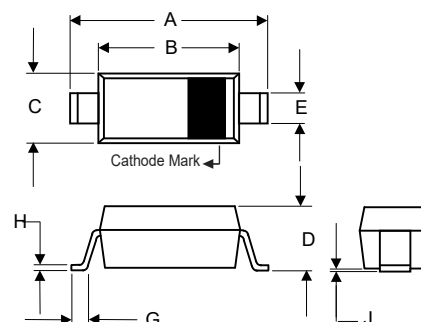
Average Forward Current	$I_{F(AV)}$	15mA	
Peak Forward Surge Current	I_{FSM}	2.0A	t=8.3ms
Power Dissipation(Note 2)	P_d	400mW	
Maximum Forward Voltage Drop	V_F	0.41V 0.40V 0.39V 1.00V 0.95V 0.90V	$I_{FM}=1mA;$ $I_{FM}=15mA;$
Maximum Leakage Current	I_R	200nA	$V_R = 50V$ $V_R = 40V$ $V_R = 30V$
Reverse Recovery Time	t_{rr}	1ns	$I_F=I_R=5mA,$ $I_{rr}=0.1 \times I_R, R_L=100\Omega$
Junction Capacitance	C_J	2.0pF 2.1pF 2.2pF	Measured at f=1.0MHz, $V_R=0.0V$

Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

Note: 2. Valid provided that electrodes are kept at ambient Temperature

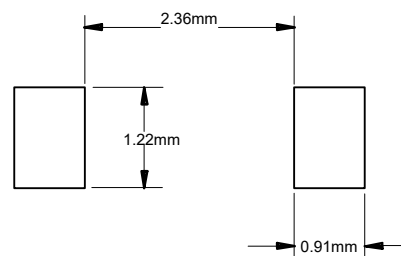
400mW Small Signal Schottky Diode 40 to 60 Volts

SOD-123



DIM	DIMENSIONS				NOTE
	INCHES		MM		
	MIN	MAX	MIN	MAX	
A	0.140	0.152	3.55	3.85	
B	0.100	0.112	2.55	2.85	
C	0.055	0.071	1.40	1.80	
D	----	0.053	----	1.35	
E	0.018	0.026	0.45	0.65	
G	0.006	----	0.15	----	
H	----	0.010	----	0.25	
J	----	0.006	----	0.15	

Suggested Solder Pad Layout



Curve Characteristics

Fig. 1 - Typical Instantaneous Forward Characteristics

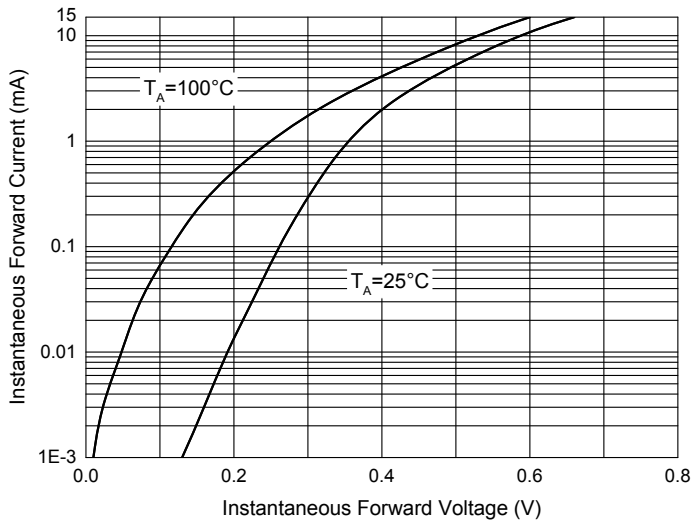


Fig. 2 - Typical Reverse Leakage Characteristics

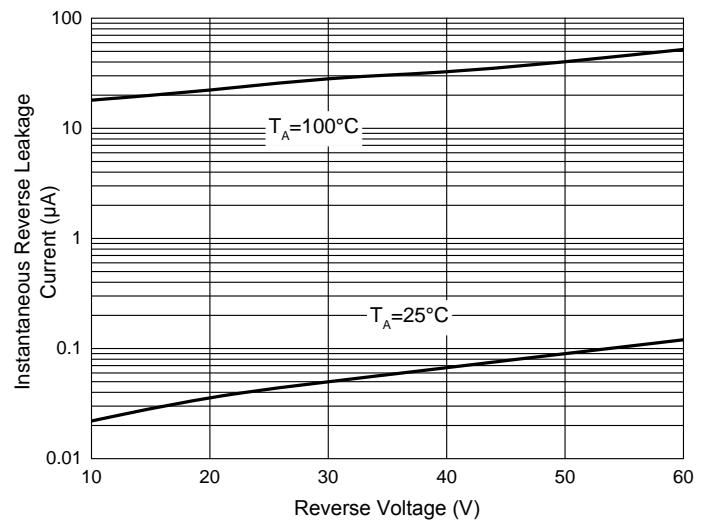
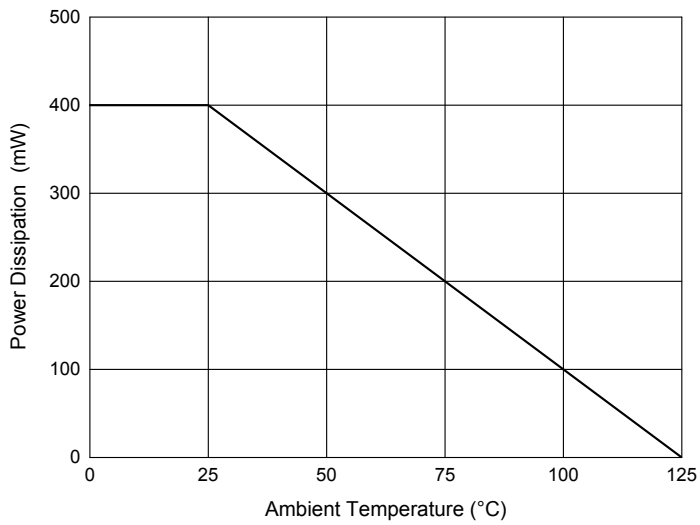


Fig. 3 - Power Derating Curve



Ordering Information

Device	Packing
Part Number-TP	Tape&Reel: 3Kpcs/Reel

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