

Features

- Low Reverse Recovery Time
- Low Reverse Capacitance
- Low Forward Voltage Drop
- Guard Ring Construction for Transient Protection
- 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
SD101AWS	S1	60V	42V	60V
SD101BWS	S2	50V	35V	50V
SD101CWS	S3	40V	28V	40V

Electrical Characteristics @ 25°C Unless Otherwise Specified

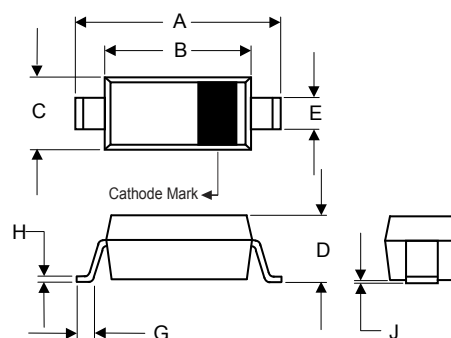
Forward Continuous Current	$I_{F(AV)}$	15mA	
Peak Forward Surge Current	I_{FSM}	2A	$t=8.3ms$
Power Dissipation	P_d	400mW	Note 2
Maximum Instantaneous Forward Voltage	V_F	0.41V 0.40V 0.39V 1.00V 0.95V 0.90V	$I_F=1mA$ $I_F=15mA$
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	200nA	$V_R = 50V$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

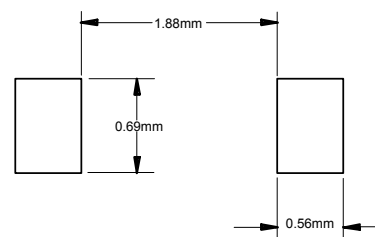
400mW Small Signal Schottky Diode 40 to 60 Volts

SOD-323



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	0.090	0.107	2.30	2.70	
B	0.063	0.071	1.60	1.80	
C	0.045	0.053	1.15	1.35	
D	0.031	0.045	0.80	1.15	
E	0.010	0.016	0.25	0.40	
G	0.004	0.018	0.10	0.45	
H	0.004	0.010	0.10	0.25	
J	-----	0.006	-----	0.15	

Suggested Solder Pad Layout



Curve Characteristics

Fig. 1 - Typical Instantaneous Forward Characteristics

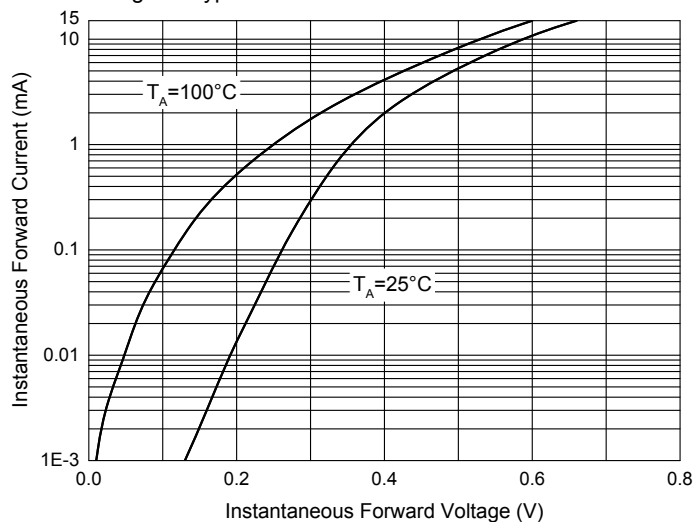


Fig. 2 - Typical Reverse Leakage Characteristics

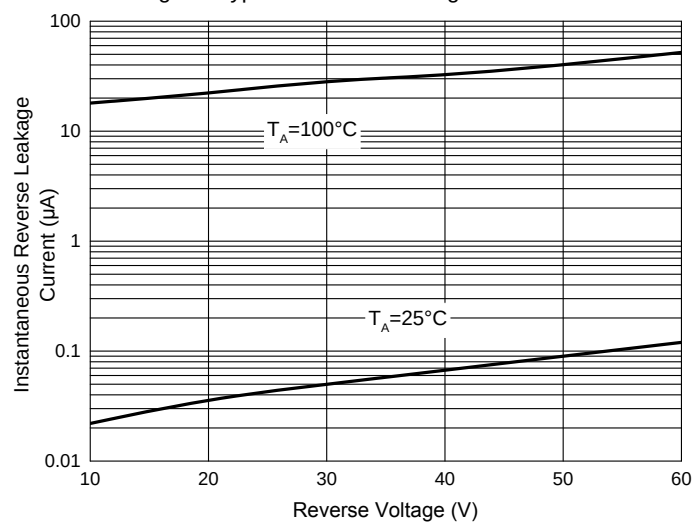
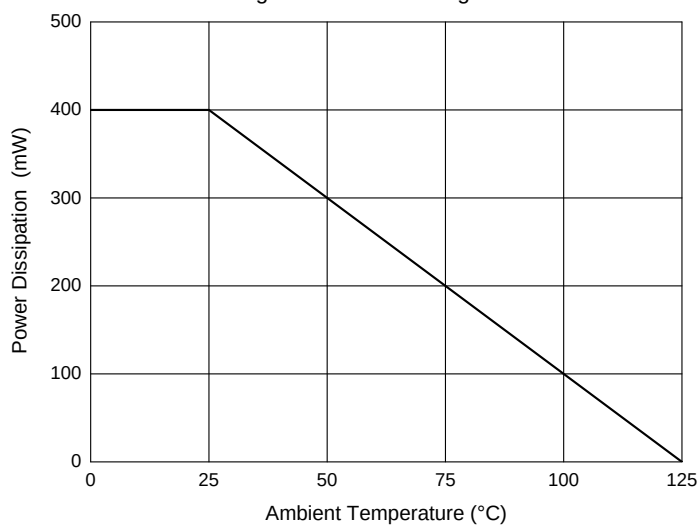


Fig. 3 - Power Derating Curve



Ordering Information

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

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