

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 Available Upon Request By Adding Suffix "-HF"
- 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

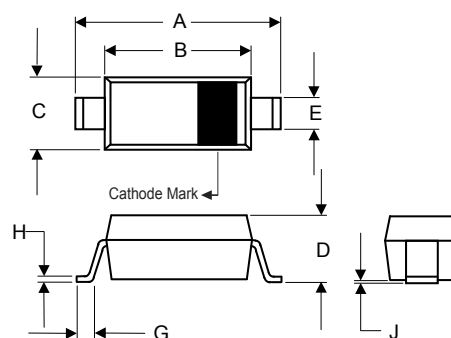
Electrical Characteristics @ 25°C Unless Otherwise Specified

Forward Continuous Current	$I_{F(AV)}$	15mA	
Peak Forward Surge Current	I_{FSM}	2A	t=8.3ms
Power Dissipation	P_d	400mW	Note 1
Maximum Instantaneous Forward Voltage	V_F	SD101AWS	0.41V
		SD101BWS	0.40V
		SD101CWS	0.39V
			$I_F=1mA$
Maximum DC Blocking Voltage	I_R	SD101AWS	1.00V
		SD101BWS	0.95V
		SD101CWS	0.90V
			$I_F=15mA$
Maximum Reverse Recovery Time	t_{rr}	200nA	$V_R = 50V$ $V_R = 40V$ $V_R = 30V$
Maximum Reverse Recovery Time	t_{rr}	1.0ns	$I_F=I_R=5mA$ $I_{rr}=0.1 \times I_R, R_L=100\Omega$
Maximum Junction Capacitance	C_J	2.0pF 2.1pF 2.2pF	Measured at 1.0MHz, $V_R=0.0V$

Note: 1. Valid provided that electrodes are kept at ambient temperature

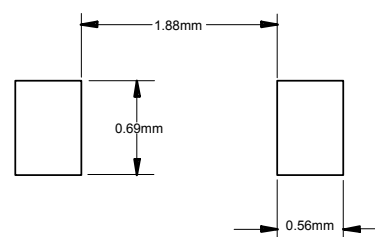
400mW Small Signal Schottky Diode 40 to 60 Volts

SOD-323



DIM	DIMENSIONS				NOTE
	INCHES		MM		
	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

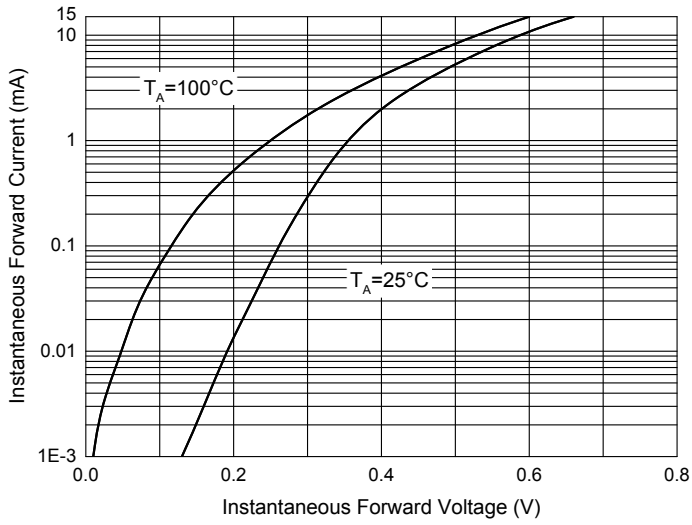


Fig. 2 - Typical Reverse Leakage Characteristics

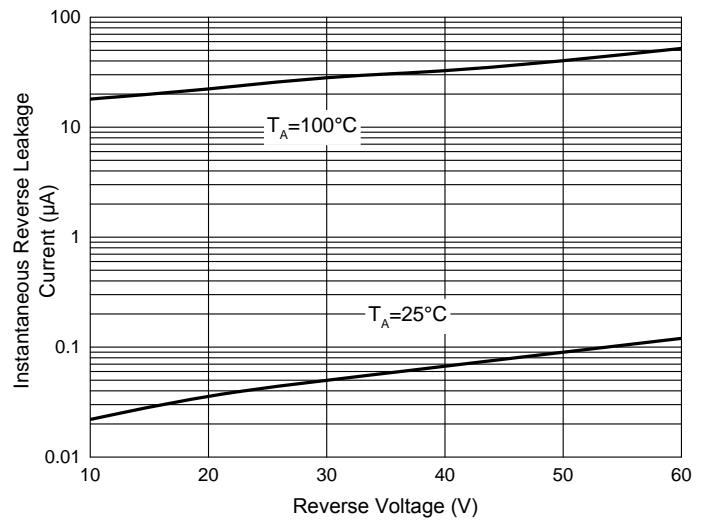
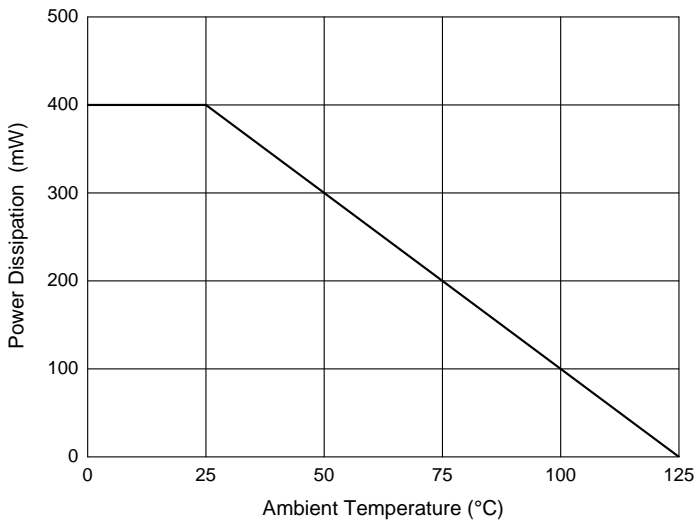


Fig. 3 - Power Derating Curve



Ordering Information

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

Note : Adding "-HF" Suffix For Halogen Free, eg. Part Number-TP-HF

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- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



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