

**Features**

- AEC-Q101 Qualified
- 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
SD101AWSHE3	S1	60V	42V	60V
SD101BWSHE3	S2	50V	35V	50V
SD101CWSHE3	S3	40V	28V	40V

**Electrical Characteristics @ 25°C Unless Otherwise Specified**

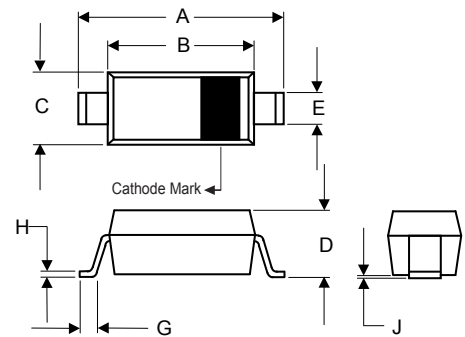
Forward Continuous Current		$I_{F(AV)}$	15mA	
Peak Forward Surge Current		$I_{FSM}$	2A	$t=8.3ms$
Power Dissipation		$P_d$	400mW	Note 2
Maximum Instantaneous Forward Voltage	SD101AWSHE3 SD101BWSHE3 SD101CWSHE3	$V_F$	0.41V 0.40V 0.39V	$I_F=1mA$
Maximum DC Blocking Reverse Current At Rated DC Blocking Voltage	SD101AWSHE3 SD101BWSHE3 SD101CWSHE3	$I_R$	200nA	$V_R = 50V$ $V_R = 40V$ $V_R = 30V$
Maximum Reverse Recovery Time		$t_{rr}$	1.0ns	$I_F=I_R=5mA$ $I_{rr}=0.1 \times I_R, R_L=100\Omega$
Maximum Junction Capacitance	SD101AWSHE3 SD101BWSHE3 SD101CWSHE3	$C_J$	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

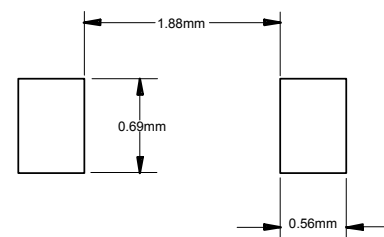
**400mW Small Signal Schottky Diode**  
**40 to 60 Volts**

**SOD-323**



DIM	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

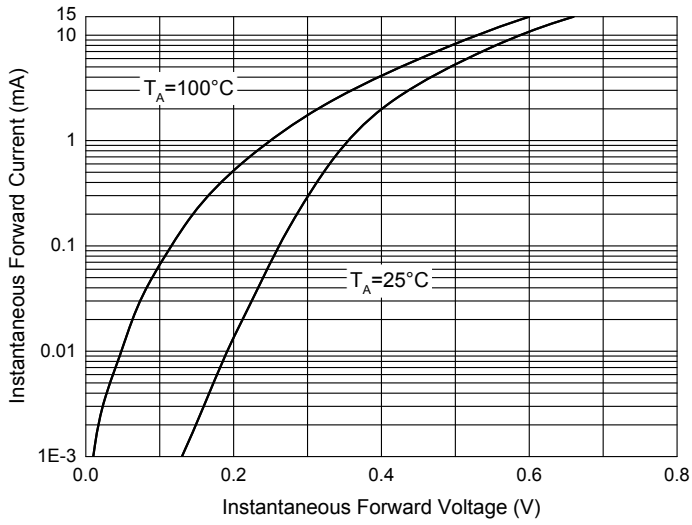


Fig. 2 - Typical Reverse Leakage Characteristics

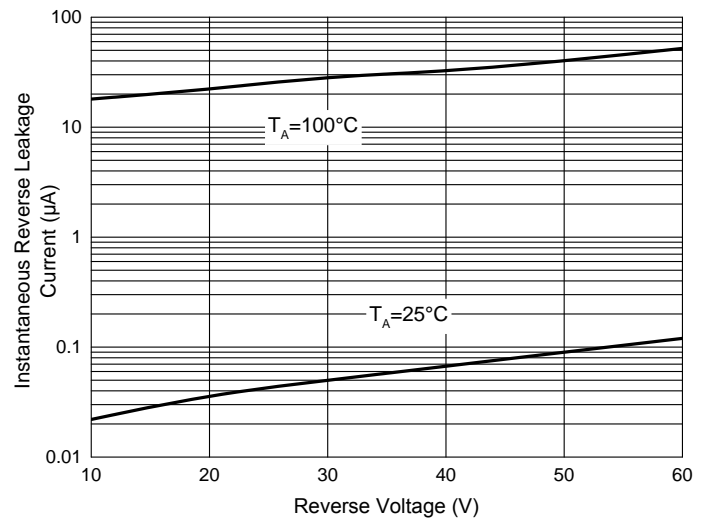
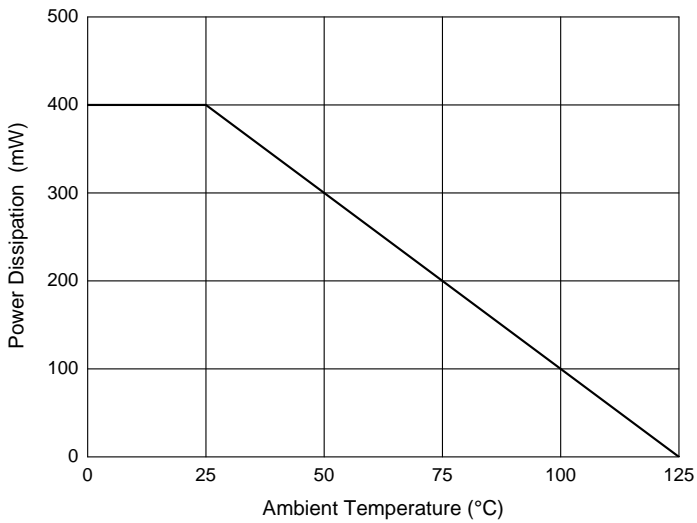


Fig. 3 - Power Derating Curve



## Ordering Information

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

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