

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

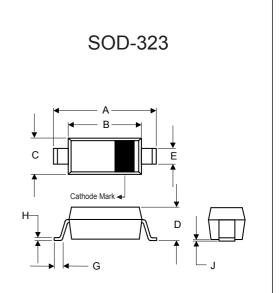
Electrical Characteristics @ 25°C Unless Otherwise Specified

Forward Continuous Current		$I_{F(AV)}$	15mA	
Peak Forward Surge Current		I _{FSM}	2A	t=8.3ms
Power Dissipatior	า	P_{d}	400mW	Note 2
Maximum Instantaneous Forward Voltage	SD101AWS SD101BWS SD101CWS SD101AWS SD101AWS SD101BWS	V _F	0.41V 0.40V 0.39V 1.00V 0.95V	I _F =1mA I _F =15mA
	SD101BWS SD101CWS		0.95V 0.90V	
Maximum DC Reverse Current At Rated DC Blocking Voltage	SD101AWS SD101BWS SD101CWS	I _R	200nA	$V_R = 50V$ $V_R = 40V$ $V_R = 30V$
Maximum Reverse Recovery Time		t _{rr}	1.0ns	$I_F = I_R = 5mA$ $I_{rr} = 0.1XIR, R_L = 100\Omega$
Maximum Junction Capacitance	SD101AWS SD101BWS SD101CWS	CJ	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.

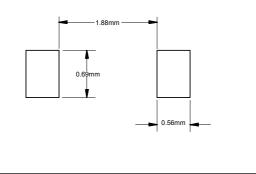
Note:2. Valid provided that electrodes are kept at ambient temperature

400mW Small Signal Schottky Diode 40 to 60 Volts



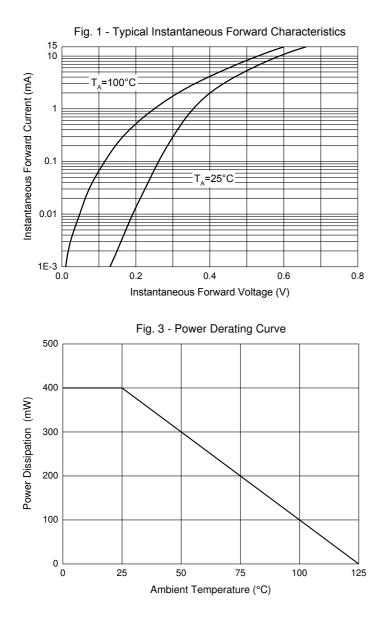
DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	NOTE
Α	0.090	0.107	2.30	2.70	
В	0.063	0.071	1.60	1.80	
С	0.045	0.053	1.15	1.35	
D	0.031	0.045	0.80	1.15	
E	0.010	0.016	0.25	0.40	
G	0.004	0.018	0.10	0.45	
Н	0.004	0.010	0.10	0.25	
J		0.006		0.15	

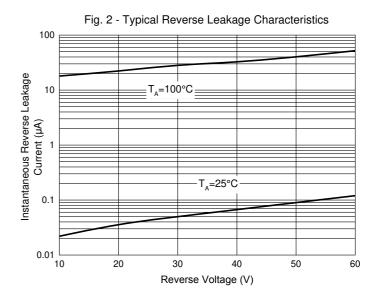
Suggested Solder Pad Layout





Curve Characteristics







Ordering Information

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

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