

Features

- Guard Ring Construction for Transient Protection
- Negligible Reverse Recovery Time
- Low Reverse Capacitance and Low Forward Voltage Drop
- 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: 500°C/W Junction to Ambient

	MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
Ī	SD103AWS	S4	40V	28V	40V
Ī	SD103BWS	S5	30V	21V	30V
Ī	SD103CWS	S6	20V	14V	20V

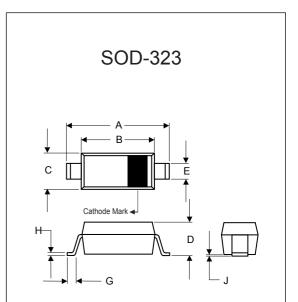
Electrical Characteristics @ 25°C Unless Otherwise Specified

Forward Continuous Current(Note2)		I _{F(AV)}	350mA	
Peak Forward Surge Current		I _{FSM}	1500mA	t≤1.0s
Maximum Power Dissipation		P_d	200mW	Note 2
Maximum Instantaneous Forward Voltage	;	V_{F}	0.37V 0.60V	I _{FM} =20mA I _{FM} =200mA
Maximum DC Reverse Current At Rated DC Blocking Voltage	t SD103AWS SD103BWS SD103CWS	I _R	5.0µA	V _R = 30V V _R = 20V V _R = 10V
Typical Reverse Recovery Time		Trr	10ns	$I_F = I_R = 200 \text{mA}$ $I_{rr} = 0.1 \times I_R R_L = 100 \Omega$
Maximum Junction Capacitance		С	50pF	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.

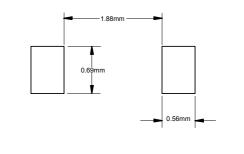
Note: 2.Valid provided that electrodes are kept at ambient temperature

200mW Small Signal Schottky Diode 20 to 40 Volts



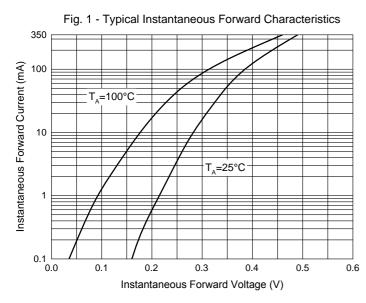
DIMENSIONS						
DIM	INCHES		MM		NOTE	
DIIVI	MIN	MAX	MIN	MAX	NOTE	
Α	0.090	0.107	2.30	2.70		
В	0.063	0.071	1.60	1.80		
C	0.045	0.053	1.15	1.35		
D	0.031	0.040	0.80	1.00		
Е	0.010	0.016	0.25	0.40		
G	0.004	0.018	0.10	0.45		
Н	0.004	0.010	0.10	0.25		
J		0.006		0.15		

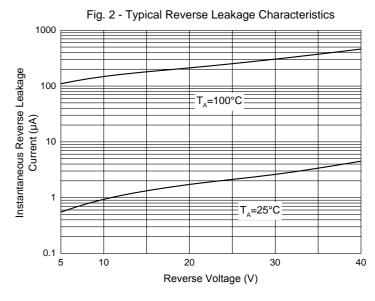
Suggested Solder Pad Layout

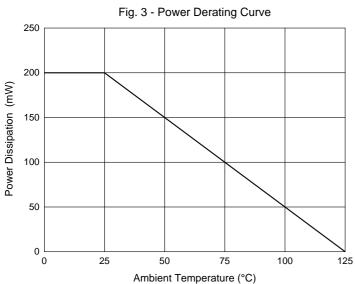


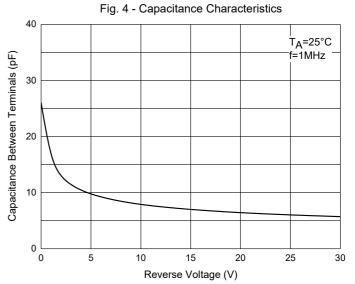


Curve Characteristics











Ordering Information

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

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