

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
SD103AWS	S4	40V	28V	40V
SD103BWS	S5	30V	21V	30V
SD103CWS	S6	20V	14V	20V

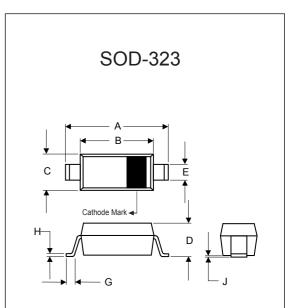
Electrical Characteristics @ 25°C Unless Otherwise Specified

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.

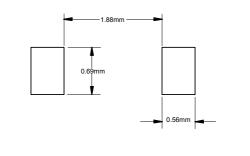
Note: 2.Valid provided that electrodes are kept at ambient temperature

200mW Small Signal Schottky Diode 20 to 40 Volts



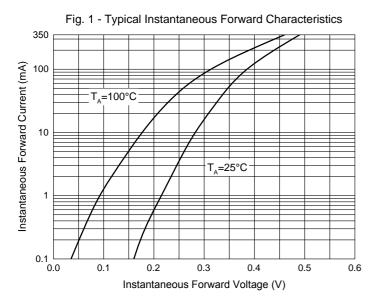
DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	NOTE
Α	0.090	0.107	2.30	2.70	
В	0.063	0.071	1.60	1.80	
С	0.045	0.053	1.15	1.35	
D	0.031	0.040	0.80	1.00	
E	0.010	0.016	0.25	0.40	
G	0.004	0.018	0.10	0.45	
Н	0.004	0.010	0.10	0.25	
J		0.006		0.15	

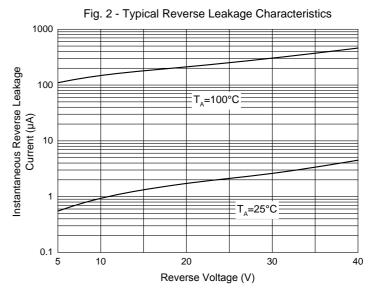
Suggested Solder Pad Layout

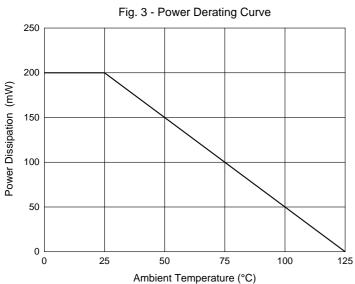


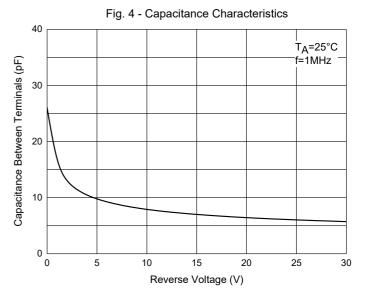


Curve Characteristics











Ordering Information

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

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