

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 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: 500°C/W Junction to Ambient

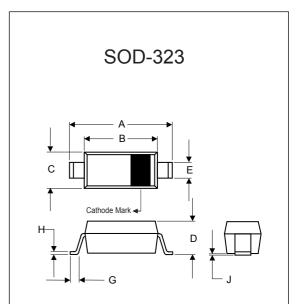
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
SD103AWS	S4	40V	28V	40V
SD103BWS	S5	30V	21V	30V
SD103CWS	S6	20V	14V	20V

Electrical Characteristics @ 25°C Unless Otherwise Specified

Forward Continuous Current(Note1)		I _{F(AV)}	350mA	
Peak Forward Surge Current		I _{FSM}	1500mA	t≤1.0s
Maximum Power Dissipation		P_d	200mW	Note 1
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	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 =200mA I _π =0.1×I _R R _L =100Ω
Typical Junction Capacitance		С	50pF	Measured at 1.0MHz, V _R =0.0V

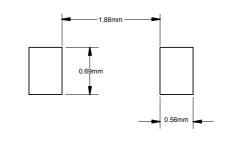
Note: 1. Valid provided that electrodes are kept at ambient temperature

200mW Small Signal Schottky Diode 20 to 40 Volts



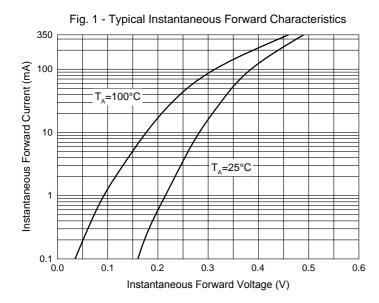
DIMENSIONS						
DIM	INCHES		MM		NOTE	
DIIVI	MIN	MAX	MIN	MAX	NOTE	
Α	0.090	0.107	2.30	2.70		
В	0.063	0.071	1.60	1.80		
С	0.045	0.053	1.15	1.35		
D	0.031	0.045	0.80	1.15		
E	0.010	0.016	0.25	0.40		
G	0.004	0.018	0.10	0.45		
Н	0.004	0.010	0.10	0.25		
J		0.006		0.15		

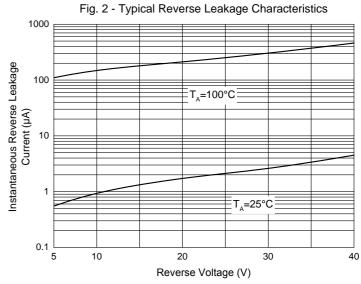
Suggested Solder Pad Layout

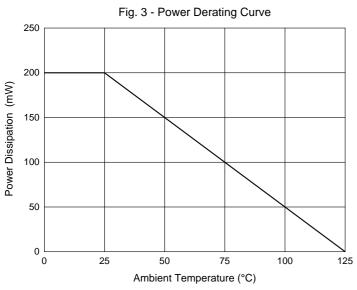




Curve Characteristics









Ordering Information

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

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

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