

Features

- Guard Ring Protection
- Low Forward Voltage Drop
- Low Power Loss For High Efficiency
- Halogen Free. "Green" Device (Note 1)
- Epoxy Meets UL 94 V-0 Flammability Rating
- 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
- Maximum 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
SD103AW	S4	40V	28V	40V
SD103BW	S5	30V	21V	30V
SD103CW	S6	20V	14V	20V

Electrical Characteristics @ 25°C Unless Otherwise Specified

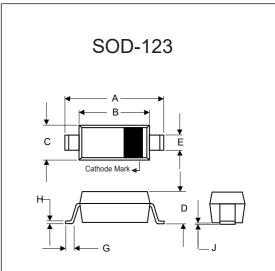
Average Forward Current	I _{F(AV)}	350mA	Note 1
Peak Forward Surge Current	I _{FSM}	1.5A	t≤1.0s
Maximum Power Dissipation	P_d	400mW	Note 2
Maximum(Note 3) Instantaneous Forward Voltage	V _F	0.37V 0.60V	I _{FM} =20mA; I _{FM} =200mA;
Maximum DC Reverse Current At Rated DC Blocking Voltage SD103AW SD103BW SD103CW	I _R	5.0µA	VR = 30V VR = 20V VR = 10V
Typical Reverse Recovery Time	t _{rr}	10ns	IF = IR =200mA I_{rr} =0.1×IR R_L =100 Ω
Typical Junction Capacitance	CJ	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

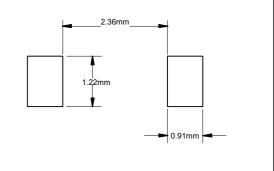
Note: 3. Pulse test: Pulse width 300 µsec, Duty cycle 2%

400mW Small Signal Schottky Diode 20 to 40 Volts



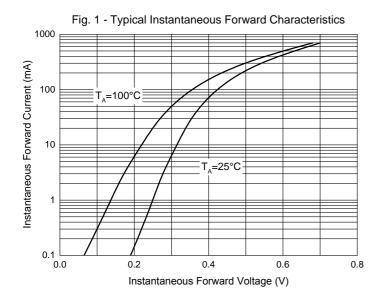
DIMENSIONS							
DIM	INCHES		MM		NOTE		
DIIVI	MIN	MAX	MIN	MAX	NOTE		
Α	0.140	0.152	3.55	3.85			
В	0.100	0.112	2.55	2.85			
С	0.055	0.071	1.40	1.80			
D		0.053		1.35			
E	0.018	0.026	0.45	0.65			
G	0.006		0.15				
Н		0.010		0.25			
J		0.006		0.15			

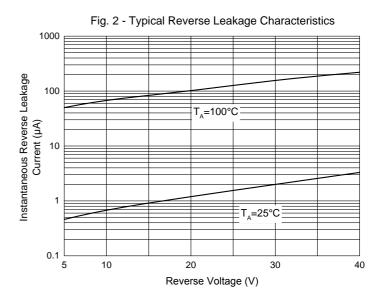
Suggested Solder Pad Layout

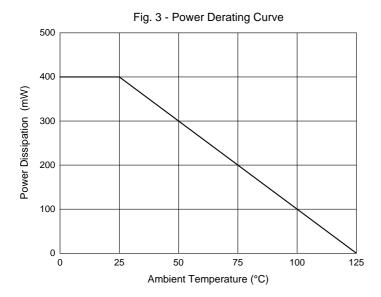




Curve Characteristics









Ordering Information

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

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