

Features

- Low Turn-on Voltage
- Fast Switching
- · Microminiature Plastic Package
- This Device is Protected by a PN Junction Guard Ring Against Excessive Voltage, Such as Electrostatic Discharge.
- 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 +150°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	iviaximum	Maximum DC Blocking Voltage
SD107WS	SG	30V	21V	30V

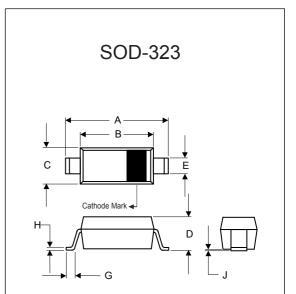
Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I _{F(AV)}	0.1A	
Peak Forward Surge Current	I _{FSM}	0.75A	tp=10ms
Power Dissipation	P _d	250mW ⁽²⁾	
Instantaneous Forward Voltage	V _F	550mV(Max) 800mV(Max) 300mV(Typ) 360mV(Typ) 470mV(Typ) 580mV(Typ)	I _F =50mA I _F =100mA I _F =2.0mA I _F =15mA I _F =50mA I _F =100mA
Minimum Reverse Breakdown Voltage	V _{BR}	30V	I _R =100μA
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	1000nA	V _R =25V
Maximum Junction Capacitance	Сл	7.0pF	Measured at 1.0MHz, V _R =10.0V

Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

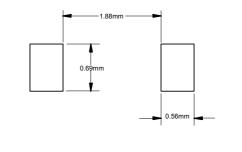
Notes:2. Valid provided that electrodes are kept at ambient temperature

250mW, 30 Volt Schottky Barrier Diode



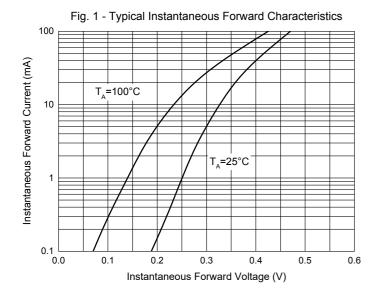
DIMENSIONS								
DIM	INCHES		MM		NOTE			
DIIVI	MIN	MAX	MIN	MAX	NOTE			
Α	0.090	0.107	2.30	2.70				
В	0.063	0.071	1.60	1.80				
C	0.045	0.053	1.15	1.35				
D	0.031	0.045	0.80	1.15				
Е	0.010	0.016	0.25	0.40				
G	0.004	0.018	0.10	0.45				
Н	0.004	0.010	0.10	0.25				
J		0.006		0.15				

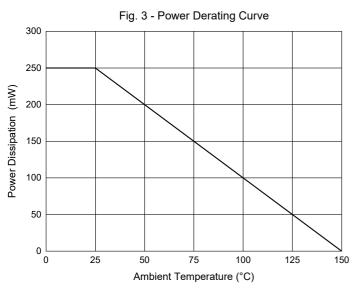
Suggested Solder Pad Layout

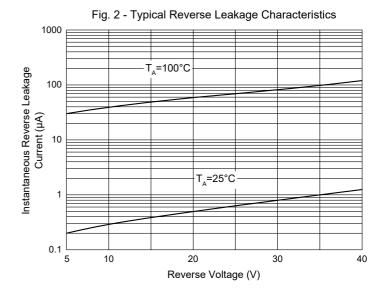




Curve Characteristics









Ordering Information

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

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