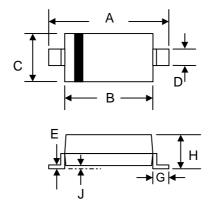


SURFACE MOUNT SCHOTTKY BARRIER DIODE

Features

- Low Turn-on Voltage
- Fast Switching
- PN Junction Guard Ring for Transient and ESD Protection
- Designed for Surface Mount Application
- Plastic Material UL Recognition Flammability Classification 94V-O



SOD-123				
Dim	Min	Max		
Α	3.6	3.9		
В	2.5	2.8		
С	1.4	1.8		
D	0.5	0.7		
Е	_	0.2		
G	0.4	_		
H	0.95	1.35		
J	J —			
All Dimensions in mm				

Mechanical Data

Case: SOD-123, Molded Plastic

Terminals: Plated Leads Solderable per

MIL-STD-202, Method 208

Polarity: Cathode Band

• Weight: 0.01 grams (approx.)

Marking: G5

Lead Free: For RoHS / Lead Free Version,
 Add "-LF" Suffix to Part Number, See Page 4

Maximum Ratings @T_A=25°C unless otherwise specified

Characteristic	Symbol	SS1040	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM VRWM VR	40	V
Forward Continuous Current (Note 1)	lF	1.0	Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	25	А
Power Dissipation (Note 1)	Pd	450	mW
Typical Thermal Resistance, Junction to Ambient Air (Note 1)	RθJA	222	°C/W
Operating and Storage Temperature Range	Тј, Тѕтс	-65 to +125	°C

Electrical Characteristics @T_A=25°C unless otherwise specified

Characteristic		Symbol	SS1040	Unit
Forward Voltage Drop	@IF = 1.0A	VFM	0.55	V
Peak Reverse Leakage Current @ DC Blocking Voltage		lгм	500	μA
Typical Junction Capacitance (VR = 4V DC, f = 1MHz)		Cj	50	pF

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

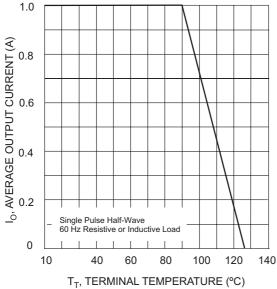
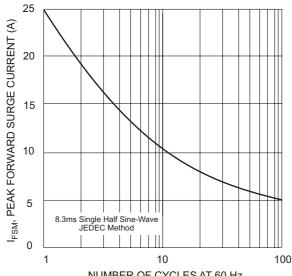
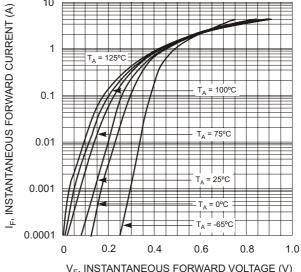


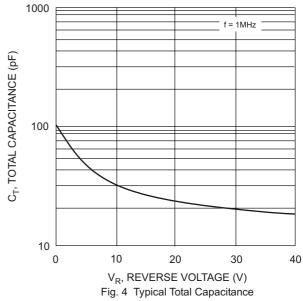
Fig. 1 Forward Current Derating Curve



NUMBER OF CYCLES AT 60 Hz Fig. 3 Maximum Non-Repetitive Peak Fwd Surge Current

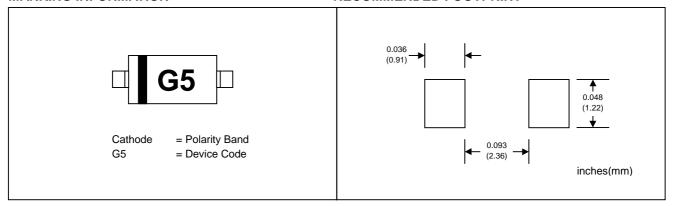


 ${
m V_F}, {
m INSTANTANEOUS} {
m Forward} {
m Voltage} {
m (V)}$ Fig. 2 Typical Forward Characteristics

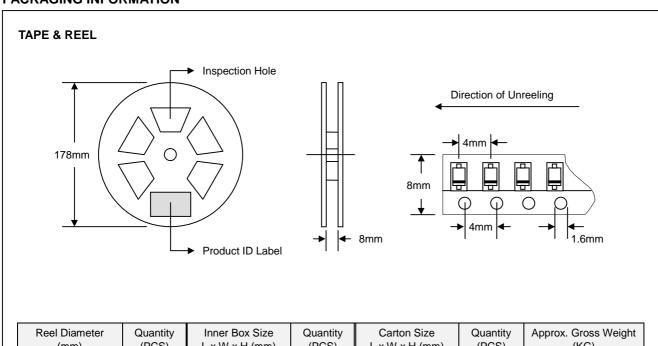


MARKING INFORMATION

RECOMMENDED FOOTPRINT



PACKAGING INFORMATION



Reel Diameter (mm)	Quantity (PCS)	Inner Box Size L x W x H (mm)	Quantity (PCS)	Carton Size L x W x H (mm)	Quantity (PCS)	Approx. Gross Weight (KG)
178	3,000	187 x 187 x 65	15,000	390 x 240 x 420	150,000	10.0

Note: 1. Anti-static plastic reel, white, water clear or blue color. Inspection hole might be varied in different alignment.

2. Components are packed in accordance with EIA standard 481-1 and 481-2.

ORDERING INFORMATION

Product No.	Package Type	Shipping Quantity
SS1040-T1	SOD-123	3000/Tape & Reel

- 1. Shipping quantity given is for minimum packing quantity only. For minimum
- order quantity, please consult the Sales Department.

 To order RoHS / Lead Free version (with Lead Free finish), add "-LF" suffix to part number above. For example, SS1040-T1-LF. 2.

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WARNING: DO NOT USE IN LIFE SUPPORT EQUIPMENT. WTE power semiconductor products are not authorized for use as critical components in life support devices or systems without the express written approval.

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