

1SS388

SURFACE MOUNT SCHOTTKY BARRIER DIODE

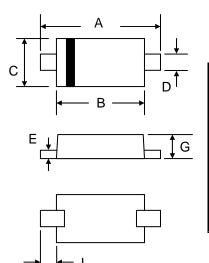


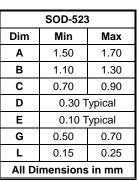
Features

- Low Turn-On Voltage
- Fast Switching Speed
- PN Junction Guard Ring for Transient and ESD Protection
- For General Purpose Switching Applications
- Plastic Material UL Recognition Flammability Classification 94V-0

Mechanical Data

- Case: SOD-523, Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band
- Weight: 0.002 grams (approx.)
- Marking: S3
- 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	Value	Unit	
Non-Repetitive Peak Reverse Voltage	Vrm	45	V	
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	Vrrm Vrwm Vr	40	V	
Maximum Forward Continuous Current	Iгм	300	mA	
Average Rectified Output Current	lo	100	mA	
Non-Repetitive Peak Forward Surge Current @ t = 10ms	IFSM	1.0	А	
Operating and Storage Temperature Range	TJ, TSTG	-55 to +125	°C	

Thermal Characteristics

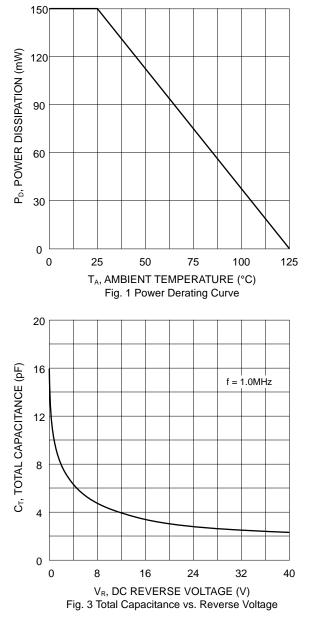
Characteristic	Symbol	Value	Unit
Power Dissipation (Note 1)	PD	150	mW

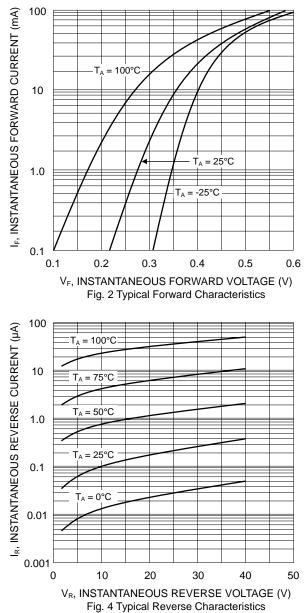
Note: 1. Mounted on FR-4 PC board with minimum recommended pad layout.



Electrical Characteristics $@T_A=25^{\circ}C$ unless otherwise specified

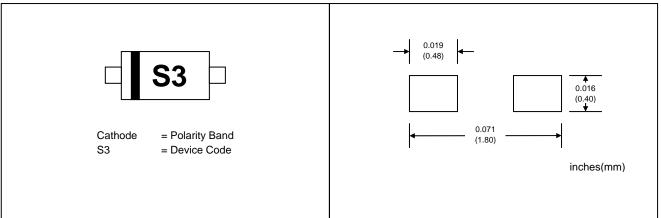
Characteristic		Symbol	Min.	Тур.	Max.	Unit
Forward Voltage Drop	@ IF = 1.0mA @ IF = 10mA @ IF = 50mA	VF		0.28 0.36 0.54	 0.60	V
Reverse Leakage Current	@ VR = 10V	lr			5.0	μA
Diode Capacitance (VR = 0V, f = 1.0MHz)		CD		18	25	pF





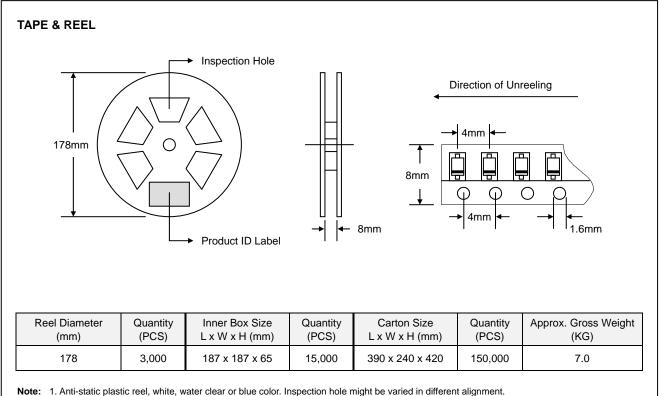


MARKING INFORMATION



RECOMMENDED FOOTPRINT

PACKAGING INFORMATION





ORDERING INFORMATION

Product No.	Package Type	Shipping Quantity
1SS388-T1	SOD-523	3000/Tape & Reel

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

2. To order RoHS / Lead Free version (with Lead Free finish), add "-LF" suffix to part number above. For example, 1SS388-T1-LF.

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