

MMSD301

SURFACE MOUNT SCHOTTKY BARRIER DIODE



Features

- Very Low Capacitance
- Low Reverse Leakage
- 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-123, Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band
- Weight: 0.01 grams (approx.)
- Marking: XT
- Lead Free: For RoHS / Lead Free Version, Add "-LF" Suffix to Part Number, See Page 4

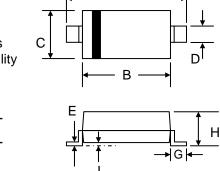
Maximum Ratings @TA=25°C unless otherwise specified

Characteristic	Symbol	Value	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	Vrrm Vrwm Vr	30	V
Forward Continuous Current	lf	200	mA
Operating Temperature Range	TJ	-55 to +125	°C
Storage Temperature Range	Тѕтс	-55 to +150	°C

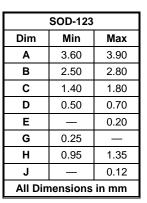
Thermal Characteristics

Characteristic	Symbol	Value	Unit
Power Dissipation (Note 1)	PD	225	mW

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



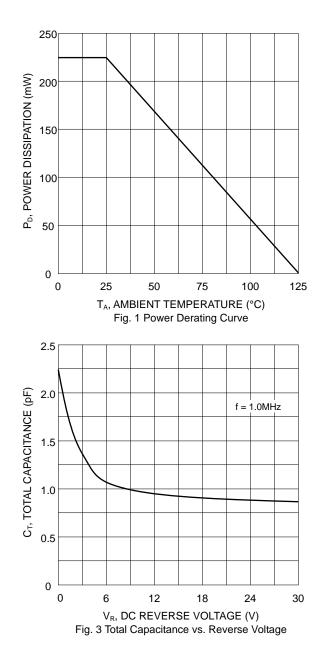
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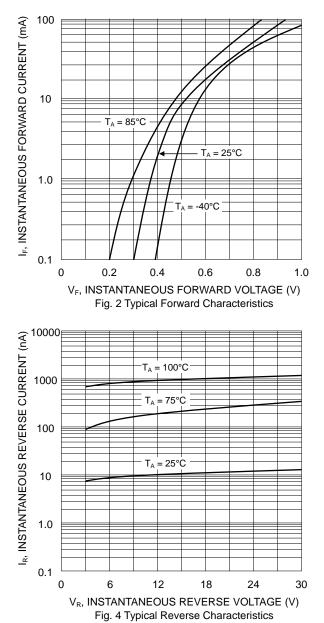




Electrical Characteristics $@T_A=25^{\circ}C$ unless otherwise specified

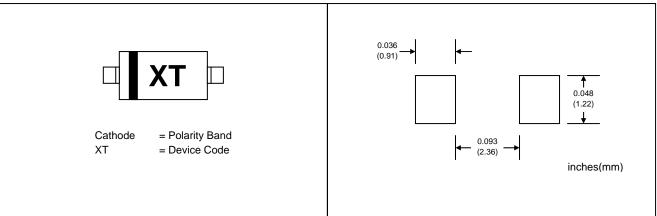
Characteristic		Symbol	Min.	Тур.	Max.	Unit
Reverse Breakdown Voltage	@ IR = 10µA	V(BR)	30			V
Forward Voltage Drop	@ IF = 1.0mA @ IF = 10mA	VF		0.38 0.52	0.45 0.60	V
Reverse Leakage Current	@ VR = 25V	lr		13	200	nA
Diode Capacitance (VR = 0V, f = 1.0MHz)		CD		0.9	1.5	pF
Toal Capacitance (VR = 15V, f = 1.0MHz)		Ст		0.9	1.5	pF





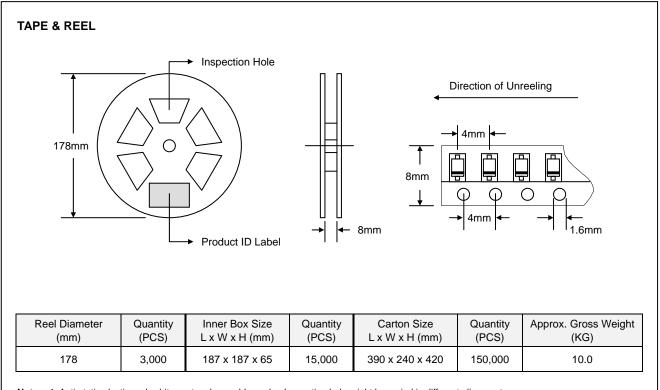


MARKING INFORMATION



RECOMMENDED FOOTPRINT

PACKAGING INFORMATION



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
MMSD301-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.

2. To order RoHS / Lead Free version (with Lead Free finish), add "-LF" suffix to part number above. For example, MMSD301-T1-LF.

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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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