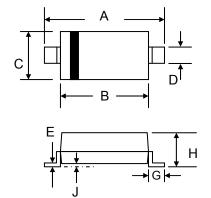


SURFACE MOUNT FAST SWITCHING DIODE



Features

- Silicon Epitaxial Planar Die Construction
- Fast Switching Speed
- Surface Mount Package Ideally Suited for Automatic Insertion
- For General Purpose Switching Applications
- Plastic Material UL Recognition Flammability Classification 94V-0



SOD-123					
Dim	Min	Max			
Α	3.60	3.90			
В	2.50	2.80			
С	1.40	1.80			
D	0.30	0.78			
Е		0.25			
G	0.15	_			
Н	0.95	1.35			
J	_	0.15			
All Dimensions in mm					

Mechanical Data

• Case: SOD-123, Molded Plastic

Terminals: Plated Leads Solderable per

MIL-STD-202, Method 208

Polarity: Cathode Band
Naistate 2.24

• Weight: 0.01 grams (approx.)

Marking: Device Code, See Page 3

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
Non-Repetitive Peak Reverse Voltage		VRSM	100	V
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage		VRRM VRWM VR	75	V
Repetitive Peak Forward Current		IFRM	300	mA
Continuous Forward Current		lo	150	mA
Non-Repetitive Peak Forward Surge Current	@ t = 1.0µs @ t = 1.0s	IFSM	2.0 1.0	А
Operating and Storage Temperature Range		TJ, TSTG	-55 to +150	°C

Thermal Characteristics

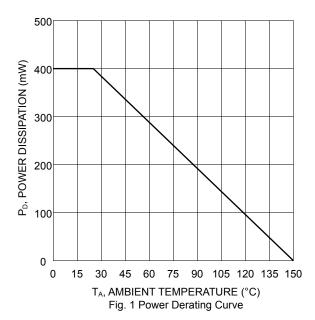
Characteristic	Symbol	Value	Unit
Power Dissipation (Note 1)	PD	400	mW
Thermal Resistance, Junction to Ambient (Note 1)	R JA	315	°C/W

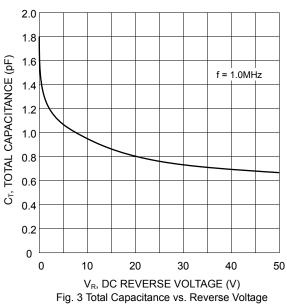
Note: 1. Mounted on FR-4 PC board with minimum recommended pad layout.

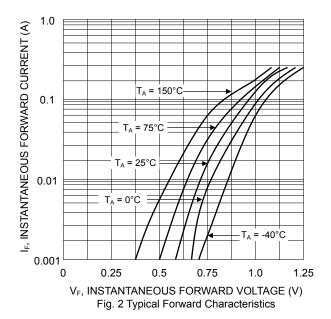


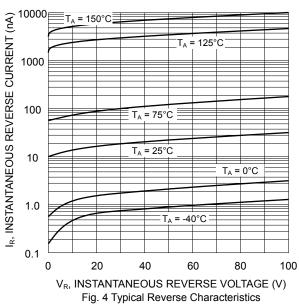
Electrical Characteristics @TA=25°C unless otherwise specified

Characteristic		Symbol	Min.	Тур.	Max.	Unit
Reverse Breakdown Voltage	@ IR = 100μA	V(BR)	100			V
Forward Voltage Drop	@ IF = 10mA @ IF = 100mA	VFM			1.0 1.2	٧
Peak Reverse Leakage Current	@ VR = 20V @ VR = 75V	IRM			25 5.0	nΑ μΑ
Diode Capacitance (VR = 0V, f = 1.0MHz)		C _D			4.0	pF
Reverse Recovery Time (IF = IR = 10mA, IRR = 0.1 x IR, RL = 100 Ω)		trr			4.0	nS





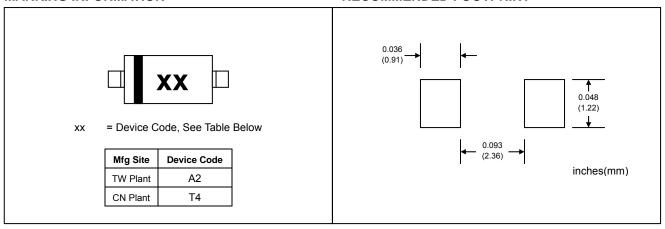






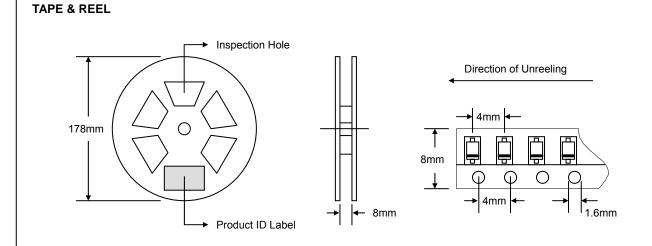
MARKING INFORMATION

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
1N4148W-T1	SOD-123	3000/Tape & Reel

- 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, 1N4148W-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.

Won-Top Electronics Co., Ltd. No. 44 Yu Kang North 3rd Road,

Chine Chen Dist., Kaohsiung 806, Taiwan **Phone:** 886-7-822-5408 or 886-7-822-5410

Fax: 886-7-822-5417 Email: sales@wontop.com Internet: http://www.wontop.com

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