

1N5391 − 1N5399 RoHS PE

1.5A STANDARD DIODE

Features

- Diffused Junction
- Low Forward Voltage Drop
- High Current Capability
- High Reliability
- High Surge Current Capability

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Mechanical Data

- Case: DO-15, Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band
- Weight: 0.40 grams (approx.)
- Mounting Position: AnyMarking: Type Number
- Lead Free: For RoHS / Lead Free Version,
 Add "-LF" Suffix to Part Number, See Page 4

DO-15					
Dim	Min	Max			
Α	25.4	_			
В	5.50	7.62			
С	0.71	0.864			
D	2.60	3.60			
All Dimensions in mm					

Maximum Ratings and Electrical Characteristics @T_A=25°C unless otherwise specified

Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic	Symbol	1N 5391	1N 5392	1N 5393	1N 5395	1N 5397	1N 5398	1N 5399	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM VRWM VR	50	100	200	400	600	800	1000	٧
RMS Reverse Voltage	VR(RMS)	35	70	140	280	420	560	700	V
Average Rectified Output Current (Note 1) @T _A = 75°C	lo				1.5				Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	50				А			
Forward Voltage @I _F = 1.5A	VFM	1.0					V		
Peak Reverse Current $@T_A = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_A = 100^{\circ}C$	IRM	5.0 50				μΑ			
Typical Junction Capacitance (Note 2)	Cj	30			pF				
Typical Thermal Resistance Junction to Ambient (Note 1)	RθJA	45				°C/W			
Operating Temperature Range	Tj	-65 to +125				°C			
Storage Temperature Range	Тѕтс	-65 to +150				°C			

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Note: 1. Leads maintained at ambient temperature at a distance of 9.5mm from the case

2. Measured at 1.0 MHz and Applied Reverse Voltage of 4.0V D.C.

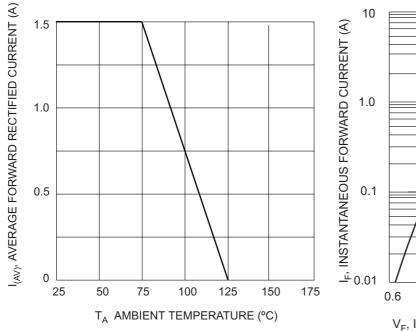
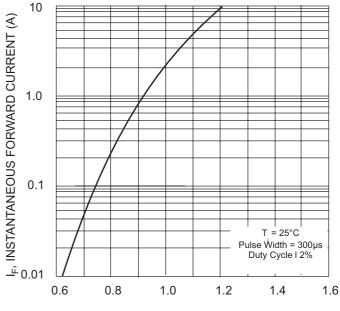


Fig. 1, Forward Current Derating Curve



 V_{F} , INSTANTANEOUS FORWARD VOLTAGE (V) Fig. 2 Typical Forward Characteristics

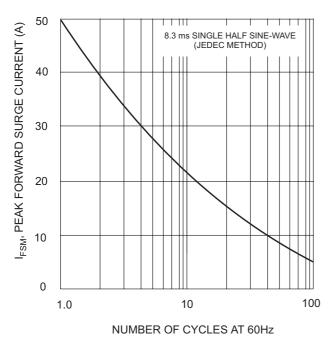


Fig. 3 Maximum Non-Repetitive Peak Forward Surge Current

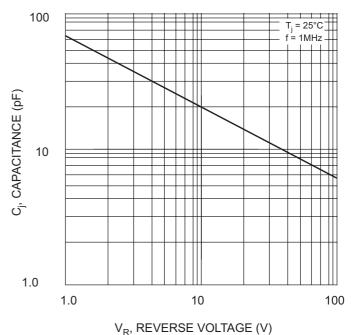
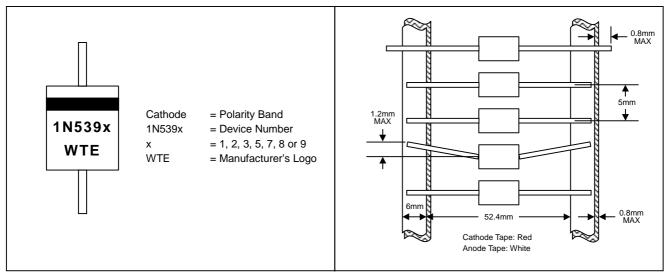


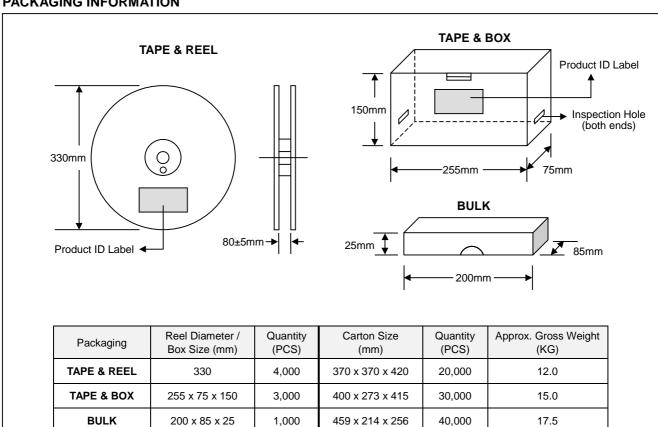
Fig. 4 Typical Junction Capacitance

MARKING INFORMATION

TAPING SPECIFICATIONS



PACKAGING INFORMATION



Note: 1. Paper reel, white or gray color. Core material: plastic or metal.

2. Components are packed in accordance with $\dot{\text{EIA}}$ standard RS-296-E.

ORDERING INFORMATION

Product No.	Package Type	Shipping Quantity				
1N5391-T3	DO-15	4000/Tape & Reel				
1N5391-TB	DO-15	3000/Tape & Box				
1N5391	DO-15	1000 Units/Box				
1N5392-T3	DO-15	4000/Tape & Reel				
1N5392-TB	DO-15	3000/Tape & Box				
1N5392	DO-15	1000 Units/Box				
1N5393-T3	DO-15	4000/Tape & Reel				
1N5393-TB	DO-15	3000/Tape & Box				
1N5393	DO-15	1000 Units/Box				
1N5395-T3	DO-15	4000/Tape & Reel				
1N5395-TB	DO-15	3000/Tape & Box				
1N5395	DO-15	1000 Units/Box				
1N5397-T3	DO-15	4000/Tape & Reel				
1N5397-TB	DO-15	3000/Tape & Box				
1N5397	DO-15	1000 Units/Box				
1N5398-T3	DO-15	4000/Tape & Reel				
1N5398-TB	DO-15	3000/Tape & Box				
1N5398	DO-15	1000 Units/Box				
1N5399-T3	DO-15	4000/Tape & Reel				
1N5399-TB	DO-15	3000/Tape & Box				
1N5399	DO-15	1000 Units/Box				

- 1. Products listed in **bold** are WTE **Preferred** devices.
- 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, 1N5391-TB-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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