

1N5391 - 1N5399

1.5A SILICON RECTIFIER

Features

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

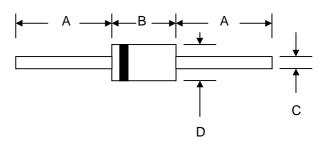
Mechanical Data

Case: Molded Plastic

 Terminals: Plated Leads Solderable per MIL-STD-202, Method 208

Polarity: Cathode BandWeight: 0.40 grams (approx.)Mounting Position: Any

Marking: Type Number



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	V
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				А
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°C At Rated DC Blocking Voltage @T _A = 100°C	lгм	5.0 50			μΑ				
Typical Junction Capacitance (Note 2)	Cj				30				pF
Typical Thermal Resistance Junction to Ambient (Note 1)	$R_{ heta}JA$				50				K/W
Operating Temperature Range	Tj	-65 to +125			°C				
Storage Temperature Range	Тѕтс	-65 to +150			°C				

*Glass passivated forms are available upon request

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.

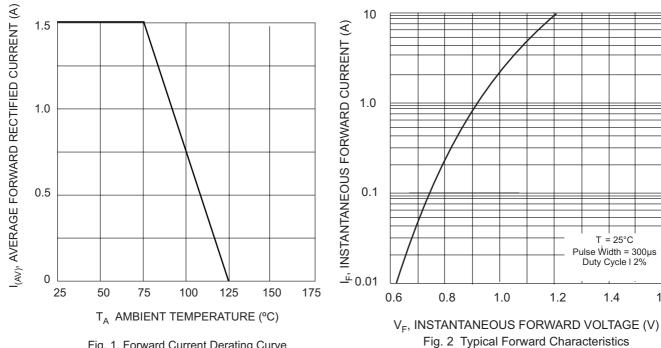
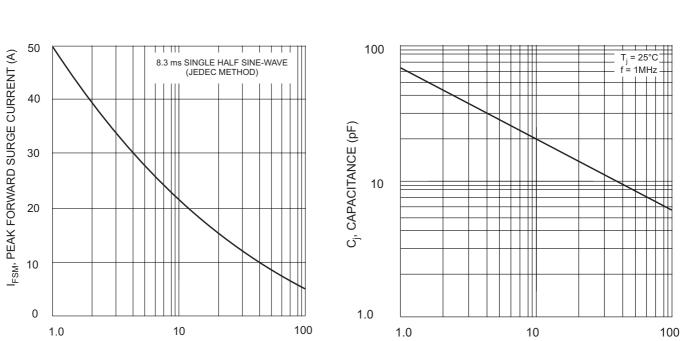


Fig. 1, Forward Current Derating Curve



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

V_R, REVERSE VOLTAGE (V) Fig. 4 Typical Junction Capacitance

T = 25°C Pulse Width = 300µs Duty Cycle I 2%

1.4

1.6

1.2

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				

Products listed in **bold** are WTE **Preferred** devices.

T3 suffix refers to a 13" reel. TB suffix refers to Ammo Pack.

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

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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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