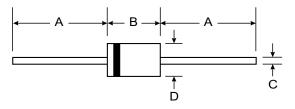


## 1N5391/S - 1N5399/S

1.5A RECTIFIER

## **Features**

- Diffused Junction
- Fast Switching for High Efficiency
- High Current Capability and Low Forward Voltage Drop
- Low Reverse Leakage Current
- Surge Overload Rating to 50A Peak
- Plastic Material UL Flammability Classification Rating 94V-0



## **Mechanical Data**

Case: Molded Plastic

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

Polarity: Cathode Band

• Weight: DO-41 0.30 grams (approx.)

DO-15 0.40 grams (approx.)

Mounting Position: AnyMarking: Type Number

	DO-41	Plastic	DO-15					
Dim	Min	Max	Min	Max				
Α	25.40	_	25.40	_				
В	4.06	5.21	5.50	7.62				
С	0.71	0.864	0.686	0.889				
D	2.00	2.72	2.60	3.60				
All Dimensions in mm								

"S" Suffix Designates DO-41 Package No Suffix Designates DO-15 Package

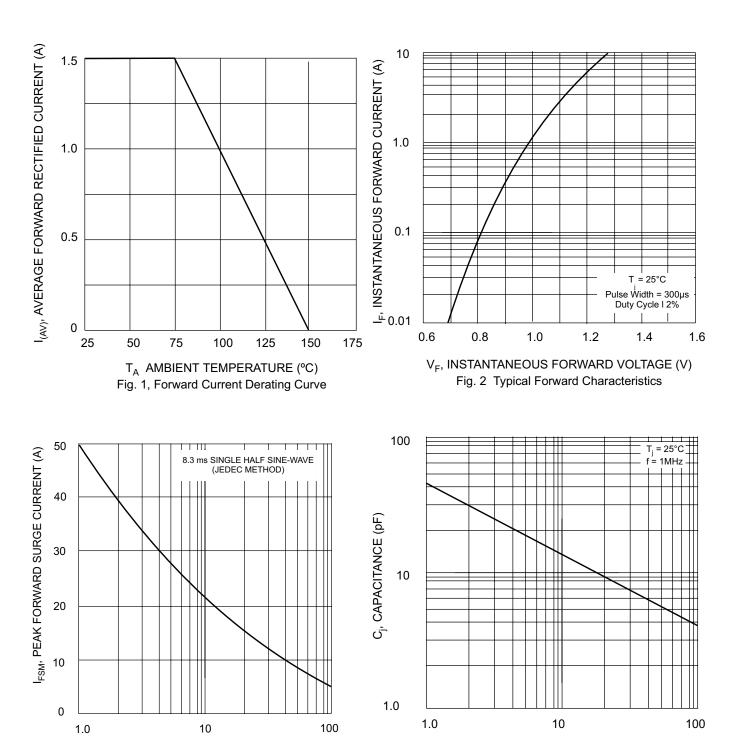
## Maximum Ratings and Electrical Characteristics @ T<sub>A</sub> = 25°C unless otherwise specified

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

Characteristic		1N 5391/S	1N 5392/S	1N 5393/S	1N 5395/S	1N 5397/S	1N 5398/S	1N 5399/S	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage		50	100	200	400	600	800	1000	٧
RMS Reverse Voltage		35	70	140	280	420	560	700	V
Average Rectified Output Current (Note 1) @ T <sub>A</sub> = 70°C		1.5						Α	
Non-Repetitive Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)		50						А	
Forward Voltage Drop @ I <sub>F</sub> = 1.5A		1.1						V	
$ \begin{array}{llllllllllllllllllllllllllllllllllll$		5.0 50						μА	
Typical Junction Capacitance (Note 2)		20						pF	
Typical Thermal Resistance Junction to Lead		25						K/W	
Typical Thermal Resistance Junction to Ambient (Note 1)		55						K/W	
Operating and Storage Temperature Range		-65 to +150						°C	

Notes: 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 DC.



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

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