

1N5391/S - 1N5399/S

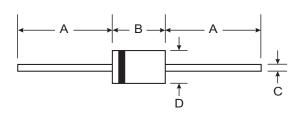
1.5A RECTIFIER

Features

- Fast Switching for High Efficiency
- High Current Capability and Low Forward Voltage Drop
- Low Reverse Leakage Current
- Surge Overload Rating to 50A Peak
- Lead Free Finish, RoHS Compliant (Note 3)

Mechanical Data

- Case: DO-41, DO-15
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0
- Moisture Sensitivity: Level 1 per J-STD-020C
- Terminals: Finish Tin. Solderable per MIL-STD-202, Method 208 (23)
- Polarity: Cathode Band
- Ordering Information: See Last Page
- Marking: Type Number
- Weight: DO-41 0.30 grams (approximate) DO-15 0.40 grams (approximate)



Dim	DO-41	Plastic	DO-15			
	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						

All Dimensions in mm

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

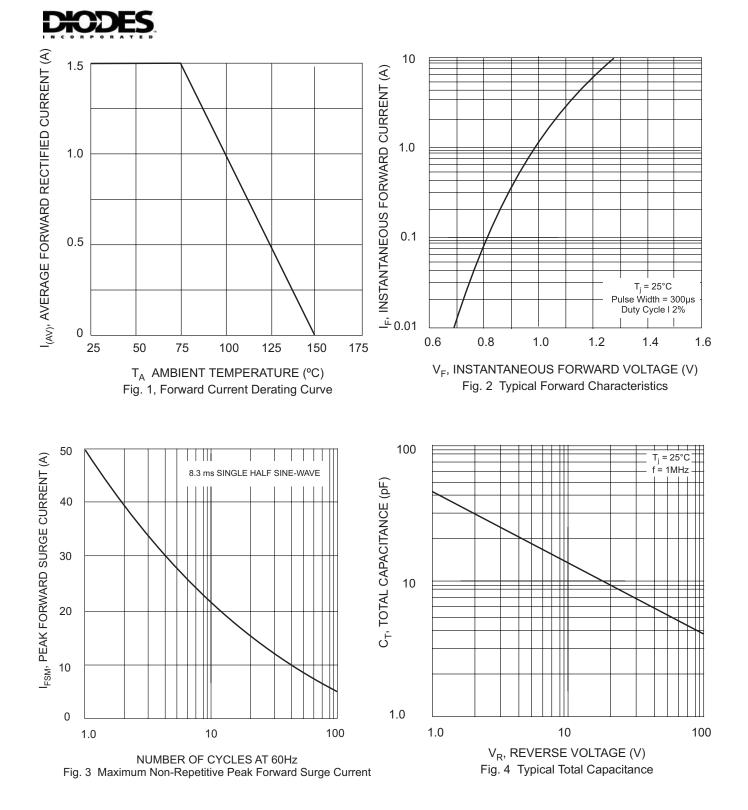
Maximum Ratings and Electrical Characteristics @ T_A = 25°C unless otherwise specified

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

Characteristic		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	V
RMS Reverse Voltage		35	70	140	280	420	560	700	V
Average Rectified Output Current (Note 1)		1.5					А		
Non-Repetitive Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load		50						А	
Forward Voltage Drop @ I _F = 1.5A		1.1						V	
Peak Reverse Leakage Current@ $T_A = 25^{\circ}C$ at Rated DC Blocking Voltage@ $T_A = 100^{\circ}C$		5.0 50						μA	
Typical Total Capacitance (Note 2)		20					pF		
Typical Thermal Resistance Junction to Lead		25						°C/W	
Typical Thermal Resistance Junction to Ambient (Note 1)		55					°C/W		
Operating and Storage Temperature Range				-(65 to +15	0			°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.
- 3. RoHS revision 13.2.2003. Glass and High Temperature Solder Exemptions Applied, see EU Directive Annex Notes 5 and 7.





Ordering Information (Note 4)

Device	Packaging	Shipping		
1N5391-B	DO-15	1K/Bulk		
1N5391-T	DO-15	4K/Tape & Reel, 13-inch		
1N5391S-A	DO-41	5K/Ammo Pack		
1N5391S-B	DO-41	1K/Bulk		
1N5391S-T	DO-41	5K/Tape & Reel, 13-inch		
1N5392-B	DO-15	1K/Bulk		
1N5392-T	DO-15	4K/Tape & Reel, 13-inch		
1N5392S-A	DO-41	5K/Ammo Pack		
1N5392S-B	DO-41	1K/Bulk		
1N5392S-T	DO-41	5K/Tape & Reel, 13-inch		
1N5393-B	DO-15	1K/Bulk		
1N5393-T	DO-15	4K/Tape & Reel, 13-inch		
1N5393S-A	DO-41	5K/Ammo Pack		
1N5393S-B	DO-41	1K/Bulk		
1N5393S-T	DO-41	5K/Tape & Reel, 13-inch		
1N5395-B	DO-15	1K/Bulk		
1N5395-T	DO-15	4K/Tape & Reel, 13-inch		
1N5395S-A	DO-41	5K/Ammo Pack		
1N5395S-B	DO-41	1K/Bulk		
1N5395S-T	DO-41	5K/Tape & Reel, 13-inch		
1N5397-B	DO-15	1K/Bulk		
1N5397-T	DO-15	4K/Tape & Reel, 13-inch		
1N5397S-A	DO-41	5K/Ammo Pack		
1N5397S-B	DO-41	1K/Bulk		
1N5397S-T	DO-41	5K/Tape & Reel, 13-inch		
1N5398-B	DO-15	1K/Bulk		
1N5398-T	DO-15	4K/Tape & Reel, 13-inch		
1N5398S-A	DO-41	5K/Ammo Pack		
1N5398S-B	DO-41	1K/Bulk		
1N5398S-T	DO-41	5K/Tape & Reel, 13-inch		
1N5399-B	DO-15	1K/Bulk		
1N5399-T	DO-15	4K/Tape & Reel, 13-inch		
1N5399S-A	DO-41			
1N5399S-B	DO-41	1K/Bulk		
1N5399S-T	DO-41	5K/Tape & Reel, 13-inch		

Notes: 4. For packaging details, visit our website at http://www.diodes.com/datasheets/ap02008.pdf

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