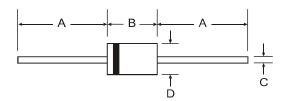
<u>1N5391/S - 1N5399/S</u>

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
- 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		
C	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 @TA = 25°C unless otherwise specified

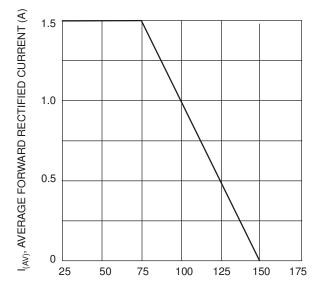
Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

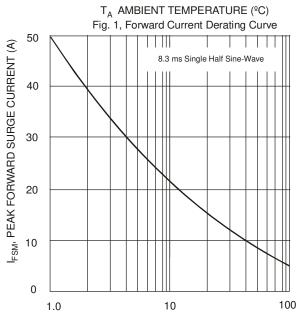
Characteristic		Symbol	1N 5391/S	1N 5392/S	1N 5393/S	1N 5395/S	1N 5397/S	1N 5398/S	1N 5399/S	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage		V _{RRM} V _{RWM} V _R	50	100	200	400	600	800	1000	٧
RMS Reverse Voltage		V _{R(RMS)}	35	70	140	280	420	560	700	٧
Average Rectified Output Current (Note 1) @ T _A = 70°C		I _O	1.5						Α	
Non-Repetitive Peak Forward Surge Current 8.3r single half sine-wave superimposed on rated load	I _{FSM}	50						Α		
Forward Voltage Drop @ I _F = 1.5A		V _{FM}	1.1							V
Peak Reverse Leakage Current $@T_A = 25^{\circ}C$ at Rated DC Blocking Voltage $@T_A = 100^{\circ}C$		I _{RM}				5.0 50				μА
Typical Total Capacitance (Note 2)	Ст	20						рF		
Typical Thermal Resistance Junction to Lead	$R_{ heta JL}$	25				·	°C/W			
Typical Thermal Resistance Junction to Ambient	$R_{\theta JA}$	55						°C/W		
Operating and Storage Temperature Range	T _j , T _{STG}	-65 to +150						°C		

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

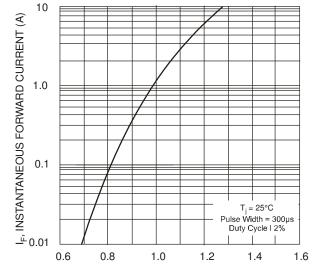




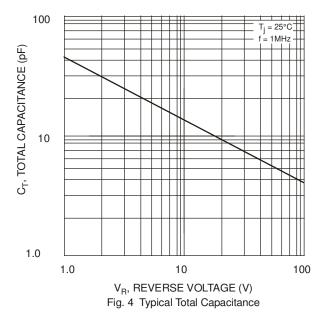




NUMBER OF CYCLES AT 60Hz Fig. 3 Maximum Non-Repetitive Peak Forward Surge Current



V_F, INSTANTANEOUS FORWARD VOLTAGE (V) Fig. 2 Typical Forward Characteristics





DISCONTINUED 08/06/2009

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	5K/Ammo Pack			
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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