



1N5391S - 1N5399S

1.5 AMPS. Silicon Rectifiers **DO-41**

Features

- ♦ High efficiency, Low VF
- ♦ High current capability
- ♦ High reliability
- High surge current capability
- ♦ Low power loss

Mechanical Data

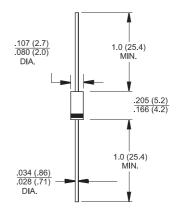
- ♦ Cases: Molded plastic
- ♦ Epoxy: UL 94V-0 rate flame retardant
- Lead: Pure tin plated, lead free., solderable per MIL-STD-202, Method 208 guaranteed
- ♦ Polarity: Color band denotes cathode
- High temperature soldering guaranteed: 260°C/10 seconds/.375",(9.5mm) lead lengths at 5 lbs., (2.3kg) tension

♦ Weight: 0.40 gram

Type Number

Operating Temperature Range

Storage Temperature Range



Dimensions in inches and (millimeters)

1N

1N

1N

Units

Maximum Ratings and Electrical Characteristics

Rating at 25 °C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%

5395S 5391S 5392S 5393S 5397S 5398S 5399S Maximum Recurrent Peak Reverse Voltage 50 100 200 400 600 800 1000 ٧ V_{RRM} 35 70 140 280 420 560 700 V Maximum RMS Voltage V_{RMS} 100 V Maximum DC Blocking Voltage 50 200 400 600 800 1000 V_{DC} Maximum Average Forward Rectified Current .375 (9.5mm) Lead Length 1.5 Α $I_{(AV)}$ $@T_A = 75 \, ^{\circ}C$ Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated 50 Α I_{FSM} Load (JEDEC method) Maximum Instantaneous Forward Voltage V V_{F} 1.1 1.0 @ 1.5A Maximum DC Reverse Current 5.0 uΑ @ TA=25 °C at Rated DC Blocking Voltage @ I_R 50 uΑ T_A=125 °C Maximum Full Load Reverse Current, Full 30 uΑ Cycle Average .375"(9.5mm) Lead Length HT_{IR} @T_A=75 °C Ci 30 Typical Junction Capacitance (Note 1) pF 50 °C/W Typical Thermal Resistance (Note 2) $R_{\theta JA}$

1N

Symbol

1N

1N

1N

Notes: 1. Measured at 1 MHz and Applied Reverse Voltage of 4.0 V D.C.

 T_J

 T_{STG}

2. Mount on Cu-Pad Size 5mm x 5mm on P.C.B.

-65 to +125

-65 to +150

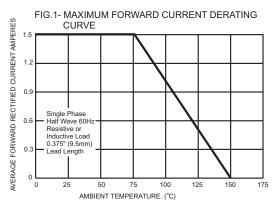
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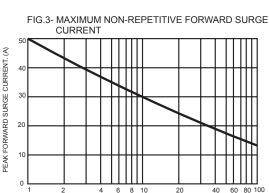
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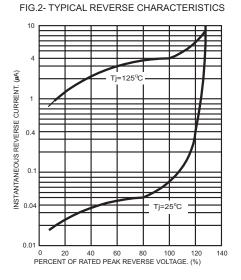
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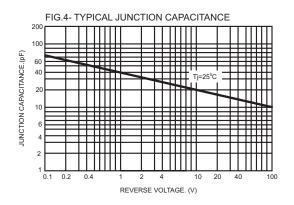


RATINGS AND CHARACTERISTIC CURVES (1N5391S THRU 1N5399S)









NUMBER OF CYCLES AT 60Hz

