



Features

- ♦ High current capability, Low VF.
- → High reliability & Current capability.
- High surge current capability.
- Low power loss, high efficiency.
 Green compound with suffix "G" on packing code & prefix "G" on datecode.

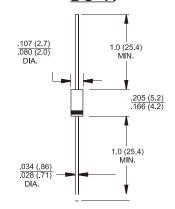
Mechanical Data

- ⇒ Epoxy: UL 94V-O rate flame retardant
- Lead: Pure tin plated, lead free, solderable per MIL-STD-202,
- Polarity: Color band denotes cathode.
- High temperature soldering guaranteed: 260oC/10 seconds
- ♦ Weight: 0.40 grams

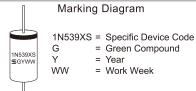
1N5391S - 1N5399S

1.5 AMPS. Silicon Rectifiers

DO-41



Dimensions in inches and (millimeters)



Maximum Ratings and Electrical Characteristics

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

Type Number	Symbol	1N 5391S	1N 5392S	1N 5393S	1N 5395S	1N 5397S	1N 5398S	1N 5399S	Units
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current .375 (9.5mm) Lead Length @TL = 90°C	I _{F(AV)}	1.5							А
Peak Forward Surge Current, 8.3 ms Single Half Sinewave Superimposed on Rated Load (JEDEC method)	I _{FSM}	50						А	
Maximum Instantaneous Forward Voltage @ 1.5A	V _F	1.1 1.0						V	
Maximum DC Reverse Current @ T _A =25°C at Rated DC Blocking Voltage (Note 1) @ T _A =125°C	I _R	5.0 50							uA
Typical Junction Capacitance (Note 2)	Cj	30							pF
Typical Thermal Resistance (Note 3)	R _{θJA} RθJL RθJC	65 25 22						°C/W	
Operating Temperature Range	TJ	-65 to +125							°С
Storage Temperature Range	T _{STG}	-65 to +150							°С

Notes: 1. Pulse Test with PW=300 usec,1% Duty Cycle.

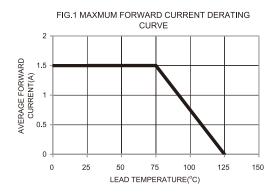
2. Measured at 1 MHz and Applied Reverse Voltage of 4.0 V D.C.

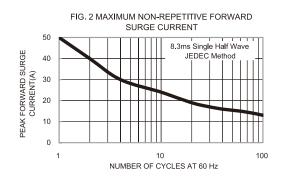
3. Mount on Cu-Pad Size 5mm x 5mm on P.C.B.

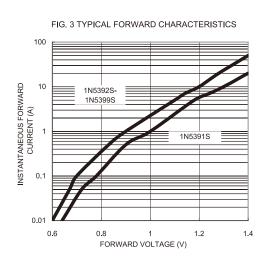
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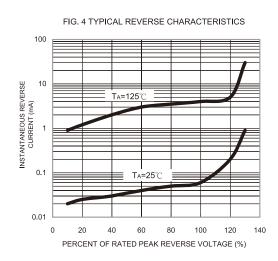


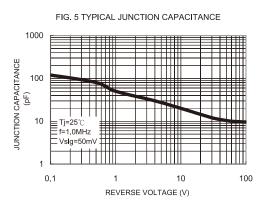
RATINGS AND CHARACTERISTIC CURVES (1N5391S THRU 1N5399S)











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