1N5391 THRU **1N5399**



1.5 AMPS. Silicon Rectifiers

Voltage Range 50 to 1000 Volts Current 1.5 Amperes DO-15

Features

- ♦ Low forward voltage drop
- ♦ High current capability
- ♦ High reliability
- ♦ High surge current capability

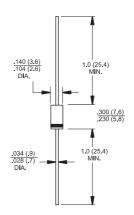
Mechanical Data

♦ Cases: Molded plastic

♦ Epoxy: UL 94V-O rate flame retardant

 Lead: Axial leads, solderable per MIL-STD-202, Method 208 guaranteed

- Polarity: Color band denotes cathode end
- High temperature soldering guaranteed: 260°C/10 seconds/.375",(9.5mm) lead lengths at 5 lbs., (2.3kg) tension
- ♦ Weight: 0.40 gram



Dimensions in inches and (millimeters)

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%

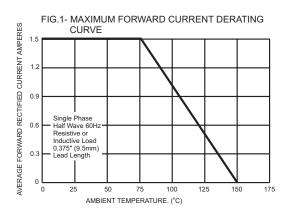
Type Number	Symbol	1N 5391	1N 5392	1N 5393	1N 5395	1N 5397	1N 5398	1N 5399	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current .375 (9.5mm) Lead Length $@T_A = 75^{\circ}C$	I _(AV)				1.5				Α
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	50							А
Maximum Instantaneous Forward Voltage @ 1.5A	V_{F}	1.0							٧
Maximum DC Reverse Current @ $T_A=25^{\circ}$ C at Rated DC Blocking Voltage @ $T_A=100^{\circ}$ C	I _R	5.0 50							uA uA
Maximum Full Load Reverse Current, Full Cycle Average .375"(9.5mm) Lead Length $@T_A=75^{\circ}C$	HT _{IR}	30							uA
Typical Junction Capacitance (Note 1)	Cj	50							pF
Typical Thermal Resistance (Note 2)	$R\theta_{JA}$	60							°C/W
Operating Temperature Range	TJ	-65 to +150							°C
Storage Temperature Range	T _{STG}	-65 to +150							°C

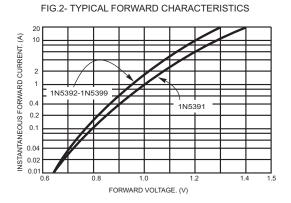
Notes: 1. Measured at 1 MHz and Applied Reverse Voltage of 4.0 V D.C.

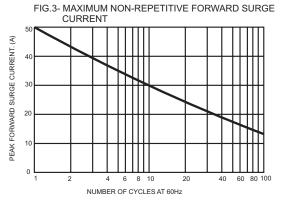
2. Mount on Cu-Pad Size 10mm x 10mm on P.C.B.



RATINGS AND CHARACTERISTIC CURVES (1N5391 THRU 1N5399)







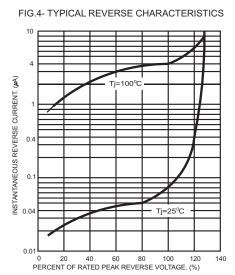


FIG.5- TYPICAL JUNCTION CAPACITANCE

