

# 1N5391G THRU 1N5399G

**GENERAL PURPOSE  
GLASS PASSIVATED JUNCTION RECTIFIER**  
VOLTAGE:50 TO 1000V      CURRENT: 1.5A



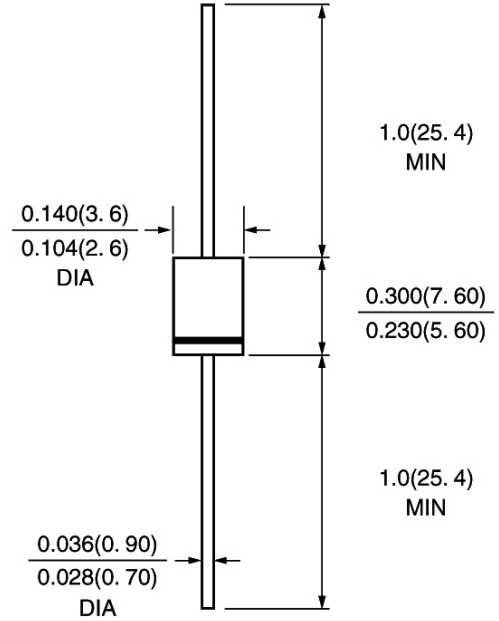
## FEATURE

Molded case feature for auto insertion  
Glass Passivated junction  
High current capability  
Low leakage current  
High surge capability  
High temperature soldering guaranteed  
250°C/10sec/0.375"lead length at 5 lbs tension

## MECHANICAL DATA

Terminal:Plated axial leads solderable per MIL-STD 202E, method 208C  
Case:Molded with UL-94 Class V-0 recognized Flame Retardant Epoxy  
Polarity:color band denotes cathode  
Mounting position:any

## DO-15\DO-204C



Dimensions in inches and (millimeters)

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(single-phase, half -wave, 60HZ, resistive or inductive load rating at 25°C, unless otherwise stated, for capacitive load, derate current by 20%)

	SYMBOL	1N53 91G	1N53 92G	1N53 93G	1N53 94G	1N53 95G	1N53 96G	1N53 97G	1N53 98G	1N53 99G	units
* Maximum Recurrent Peak Reverse Voltage	V <sub>rrm</sub>	50	100	200	300	400	500	600	800	1000	V
* Maximum RMS Voltage	V <sub>rms</sub>	35	70	140	210	280	350	420	560	700	V
* Maximum DC blocking Voltage	V <sub>dc</sub>	50	100	200	300	400	500	600	800	1000	V
* Maximum Average Forward Rectified Current 3/8"lead length at Ta =25°C	I <sub>f(av)</sub>	1.5									A
* Peak Forward Surge Current 8.3ms single Half sine-wave superimposed on rated load	I <sub>fsm</sub>	50.0									A
* Maximum Instantaneous Forward Voltage at 1.5A	V <sub>f</sub>	1.4									V
* Maximum DC Reverse Current Ta =25°C at rated DC blocking voltage Ta =125°C	I <sub>r</sub>	10.0 200.0									μA μA
Typical Junction Capacitance (Note 1)	C <sub>j</sub>	15.0									pF
Typical Thermal Resistance (Note 2)	R(ja)	50.0									°C/W
* Storage and Operation Junction Temperature	T <sub>stg</sub>	-50 to +150									°C

### Note:

1. Measured at 1.0 MHz and applied voltage of 4.0Vdc
  2. Thermal Resistance from Junction to Ambient at 0.375"lead length, P.C. Board Mounted
- \* JEDEC Registered value

# RATINGS AND CHARACTERISTIC CURVES 1N5391G THRU 1N5399G

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Fig. 1 Forward Current Derating Curve

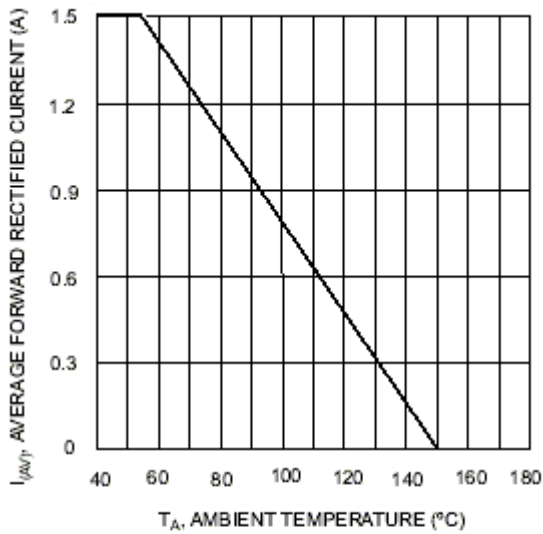


Fig. 2 Typical Forward Characteristics

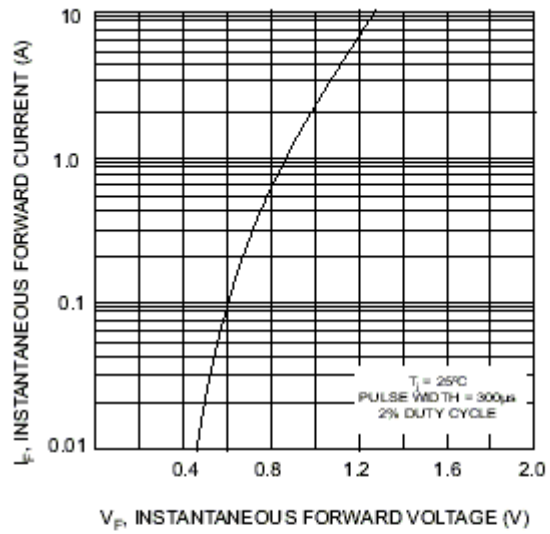


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

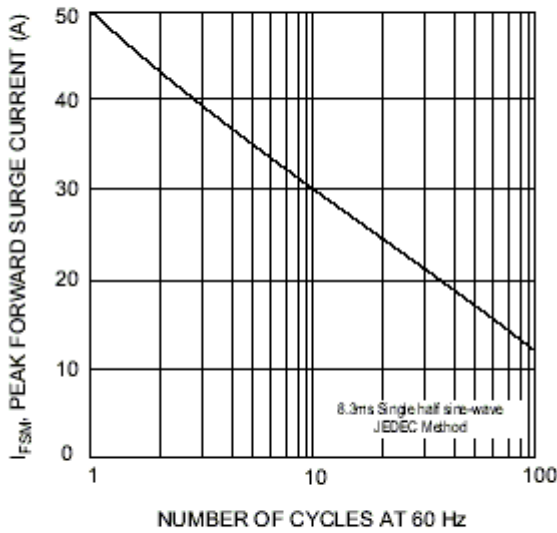


Fig. 4 Typical Junction Capacitance

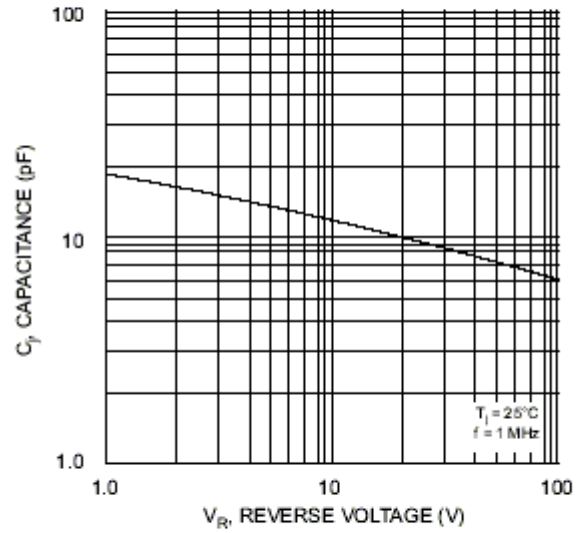


Fig. 5 Typical Reverse Characteristics

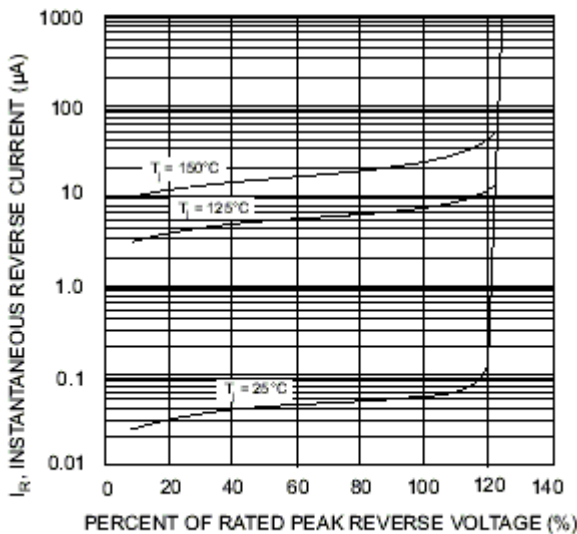


FIG. 6 - TYPICAL TRANSIENT THERMAL IMPEDANCE

