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# 1N5391G THRU 1N5399G

## *1.5 AMPS. GLASS PASSIVATED RECTIFIERS*



**VOLTAGE RANGE**
50 to 1000 Volts
CURRENT
1.5 Amperes

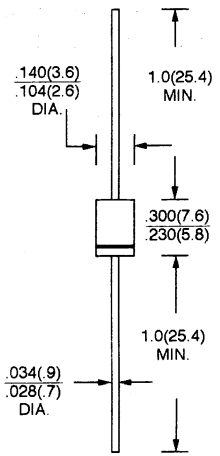
### FEATURES

* Low forward voltage drop
* High current capability
* High reliability
* High surge current capability

### MECHANICAL DATA

* Case: Molded plastic
* Epoxy: UL 94V-0 rate flame retardant
* Lead: Axial leads, solderable per MIL-STD-202, method 208 guaranteed
* Polarity: Color band denotes cathode end
* Mounting Position: Any
* Weight: 0.40 grams

**DO-15**




Dimensions in inches and (millimeters)

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

| TYPE NUMBER | SYMBOLS | 1N 5391G | 1N 5392G | 1N 5393G | 1N 5395G | 1N 5397G | 1N 5398G | 1N 5399G | 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 D.C Blocking Voltage | $V_{DC}$ | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| Maximum Average Forward Rectified Current .375" (9.5mm) lead length @ $T_A$ = 60℃ | $I_{F(AV)}$ | 1.5 | | | | | | | A |
| Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load(JEDEC method) | $I_{FSM}$ | 50 | | | | | | | A |
| Maximum Instantaneous Forward Voltage at 1.5A | $V_F$ | 1.0 | | | | | | | V |
| Maximum D.C Reverse Current @ $T_A$ = 25℃<br>at Rated D.C Blocking Voltage @ $T_A$ = 125℃ | $I_R$ | 5.0<br>100 | | | | | | | μA<br>μA |
| Typical Junction Capacitance (Note 1) | $C_J$ | 30 | | | | | | | pF |
| Operating and Storage Temperature Range | $T_J$, $T_{STG}$ | − 65 to + 150 | | | | | | | ℃ |

NOTES: 1. Measured at 1 MHz and applied reverse voltage of 4.0V D.C.

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## RATINGS AND CHARACTERISTIC CURVES (1N5391G THRU 1N5399G)

FIG.1 – TYPICAL FORWARD CURRENT DERATING CURVE

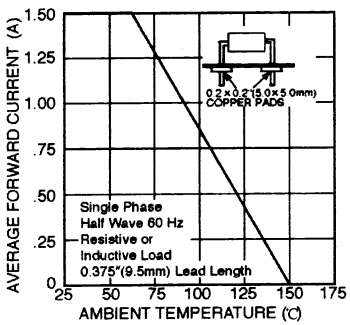



FIG.2 – MAXIMUM NON – REPETITIVE FORWARD SURGE CURRENT

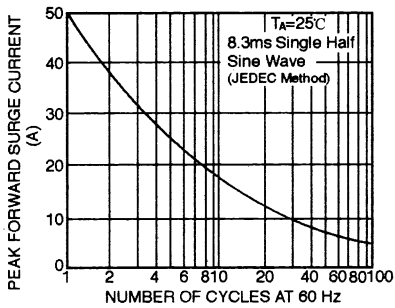



FIG.3 – TYPICAL FORWARD CHARACTERISTICS

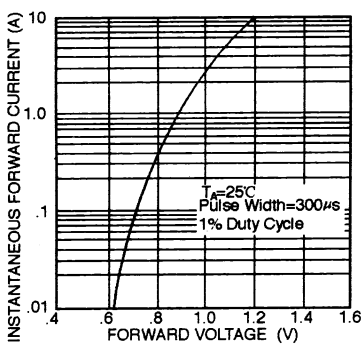



FIG.4 – TYPICAL JUNCTION CAPACITANCE

