



1N5391G THRU 1N5399G

Glass Passivated Standard Rectifier

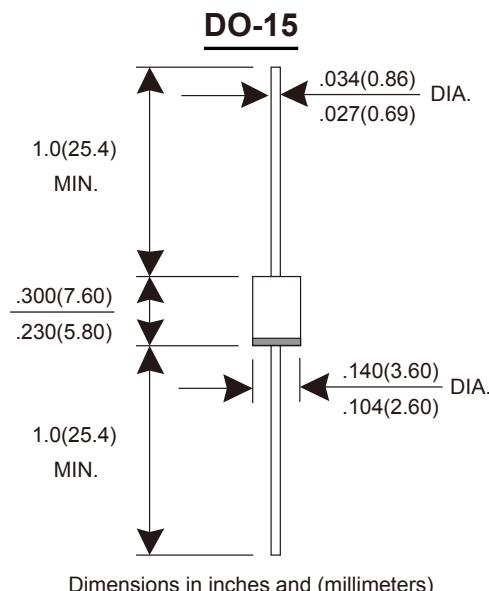
Features

- ★ Low forward voltage drop
- ★ High current capability
- ★ Low reverse leakage current
- ★ High surge current capability

Mechanical Data

- ★ Case: Molded plastic, DO-15
- ★ Epoxy: UL 94V-0 rate flame retardant
- ★ Terminals: Solderable per MIL-STD-202, method 208
- ★ Polarity: Color band denotes cathode end
- ★ Mounting position: Any

Voltage Range 50 to 1000 V
Current 1.5 Ampere



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

PARAMETER	SYMBOL	1N 5391G	1N 5392G	1N 5393G	1N 5395G	1N 5397G	1N 5398G	1N 5399G	UNIT
Maximum repetitive 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 @T _A =75°C	I _{F(AV)}						1.5		A
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load	I _{FSM}						50		A
Maximum instantaneous forward voltage @ I _F =1.5A	V _F					1.1			V
Maximum DC reverse current @T _A =25°C at rated DC blocking voltage @T _A =125°C	I _R				1	50			µA
Typical junction capacitance (Note 1)	C _J				30				pF
Typical thermal resistance from junction to ambient (Note 2)	R _{θJA}				55				°C/W
Operating junction and storage temperature range	T _J , T _{STG}				-55 to +150				°C

NOTES : (1) Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts DC.

(2) Thermal resistance from junction to ambient at 0.375" (9.5 mm) lead length, PCB mounted.

RATINGS AND CHARACTERISTICS CURVES 1N5391G THRU 1N5399G

Fig.1 - Forward Current Derating Curve

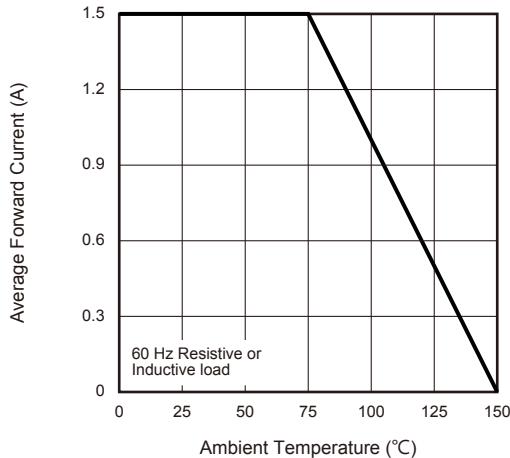


Fig.2 - Maximum Non-Repetitive Peak Forward Surge Current

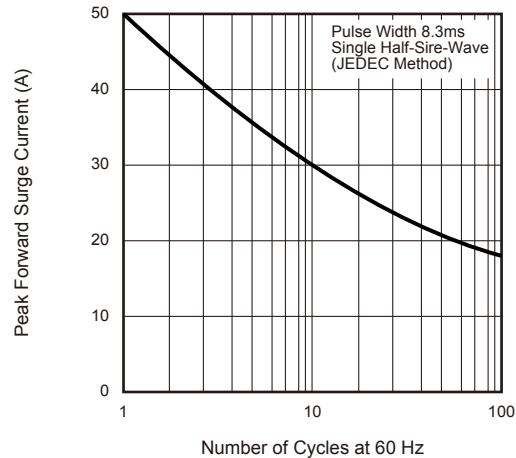


Fig.3 - Typical Instantaneous Forward Characteristics

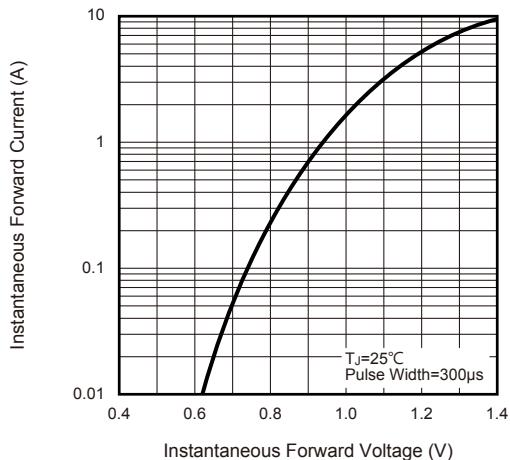


Fig.4 - Typical Reverse Leakage Characteristics

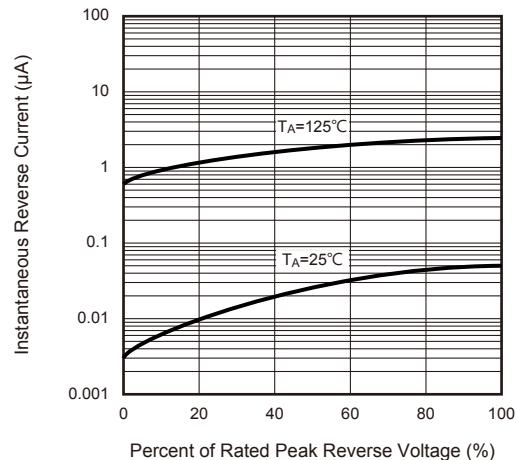


Fig.5 - Typical Junction Capacitance

