1N5391G THRU 1N5399G

GENERAL PURPOSE
GLASS PASSIVATED JUNCTION RECTIFIER

VOLTAGE:50 TO 1000V CURRENT: 1.5A

GULF SEMI

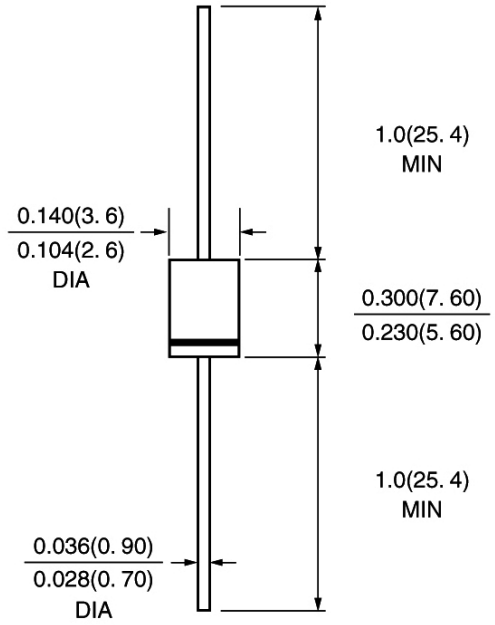
FEATURE

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-204AC



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	1N5391G	1N5392G	1N5393G	1N5394G	1N5395G	1N5396G	1N5397G	1N5398G	1N5399G	units
* Maximum Recurrent Peak Reverse Voltage	Vrrm	50	100	200	300	400	500	600	800	1000	V
* Maximum RMS Voltage	Vrms	35	70	140	210	280	350	420	560	700	V
* Maximum DC blocking Voltage	Vdc	50	100	200	300	400	500	600	800	1000	V
* Maximum Average Forward Rectified Current 3/8”lead length at Ta =25°C	If(av)	1.5									A
* Peak Forward Surge Current 8.3ms single Half sine-wave superimposed on rated load	Ifsm	50.0									A
* Maximum Instantaneous Forward Voltage at 1.5A	Vf	1.4									V
* Maximum DC Reverse Current Ta =25°C at rated DC blocking voltage Ta =125°C	Ir	10.0 200.0									µA µA
Typical Junction Capacitance (Note 1)	Cj	15.0									pF
Typical Thermal Resistance (Note 2)	R(ja)	50.0									°C/W
* Storage and Operation Junction Temperature	Tstg	-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

[1]

Fig. 1 Forward Current Derating Curve

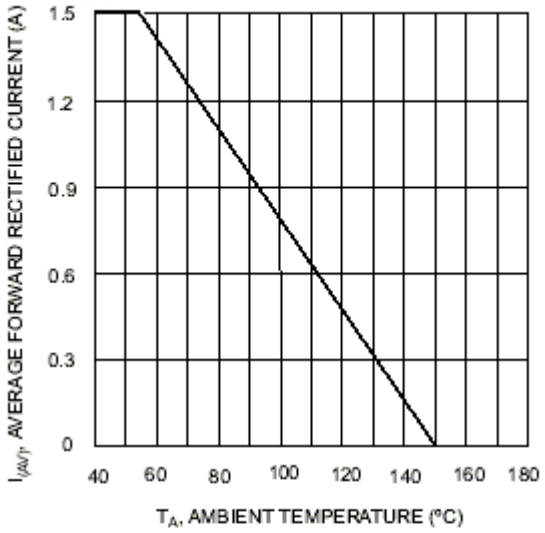


Fig. 2 Typical Forward Characteristics

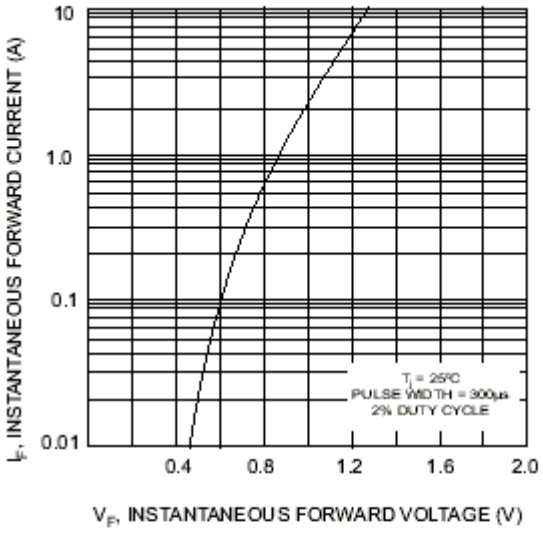


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

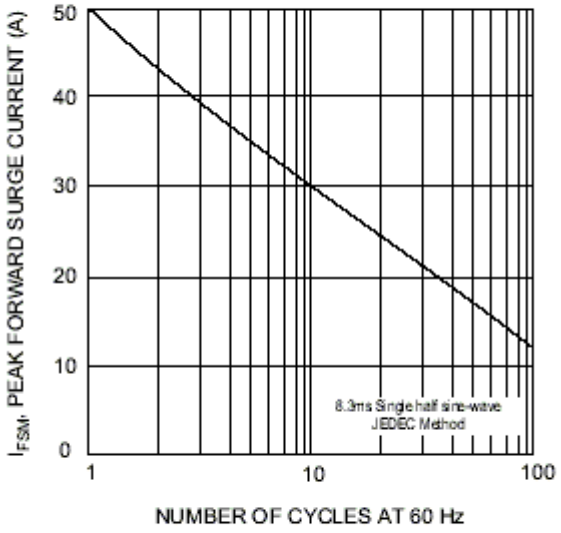


Fig. 4 Typical Junction Capacitance

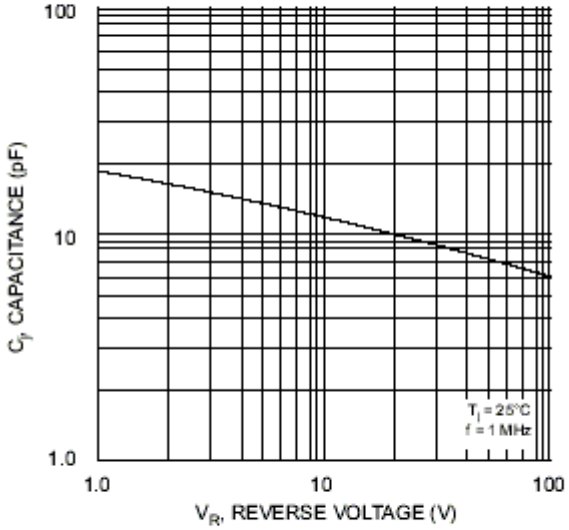


Fig. 5 Typical Reverse Characteristics

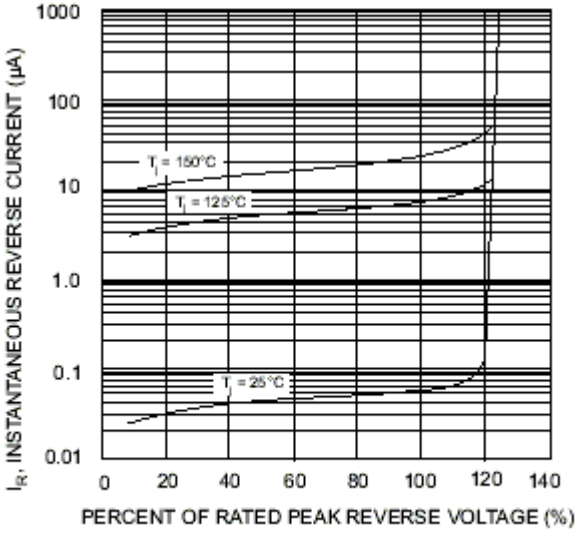
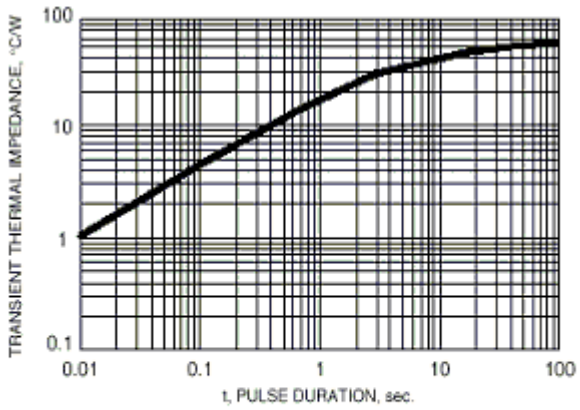


FIG. 6 - TYPICAL TRANSIENT THERMAL IMPEDANCE



[1]Rev.A1