

GLASS PASSIVATED RECTIFIER

1N5391G THRU 1N5399G	VOLTAGE RANGE	50 to 1000 Volts		
	CURRENT	1.5 Ampere		

FEATURES

- Low reverse leakage
- Glass passivated chip junction
- High forward surge current capacity
- High temperature soldering guaranteed: 260 /10 seconds, 0.375" (9.5mm) lead length

MECHANICAL DATA

- Case: transfer molded plastic
- Epoxy: UL94V 0 rate flame retardant
- Polarity: Color band denotes cathode end
- Lead: Plated axial lead, solderable per MIL-STD-202E method 208C
- Mounting position: any
- Weight: 0.014 ounce, 0.39 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

- Ratings at 25^oC ambient temperature unless otherwise specified
- Single Phase, half wave, 60Hz, resistive or inductive load
- For capacitive load derate current by 20%

1.0 (25.4)	- <u>.034 (0.9)</u> .028 (0.7) DIA.
MIN. .300 (7.6) .230 (5.8) 1.0 (25.4) MIN.	 <u>-140 (3.6)</u> DIA. .104 (2.6)
	DO-15

	SYMBOLS	1N 5391G	1N 5392G	1N 5393G	1N 5394G	1N 5395G	1N 5396G	1N 5397G	1N 5398G	1N 5399G	UNIT
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	50	100	200	300	400	500	600	800	1000	Volts
Maximum RMS Voltage	V _{RMS}	35	70	140	210	280	350	420	560	700	Volts
Maximum DC Blocking Voltage	V _{DC}	50	100	200	300	400	500	600	800	1000	Volts
Maximum Average Forward Rectified Current, 0.375" (9.5mm) lead length at $T_A = 75^{\circ}C$	I _(AV)	1.5								Amps	
Peak Forward Surge Current											
8.3mS single half sine wave superimposed on	I _{FSM} 50								Amps		
rated load (JEDEC method)											
Maximum Instantaneous Forward Voltage @ 1.5A	V _F	1.1									Volts
Maximum DC Reverse Current at Rated $T_A = 25 \ ^{O}C$	т	5.0 50									μA
DC Blocking Voltage per element $T_A = 125 \ ^{\circ}C$	I _R										
Maximum Full Load Reverse Current, full cycle Average 0.375 ° (9.5 mm) lead length at T _L = 75 °C	I _{R(AV)}	30								μΑ	
Typical Junction Capacitance (Measured at 1.0MHz and applied reverse voltage of 4.0V)	C _J	20								pF	
Typical Thermal Resistance (Note 1)	$R_{\theta JA}$	50								^o C/W	
Operating Junction Temperature Range	TJ	(-65 to +175)							°C		
Storage Temperature Range	T _{STG}	(-65 to +175)							°C		

Notes:

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



RATINGS AND CHARACTERISTIC CURVES 1N5391G THRU 1N5399G

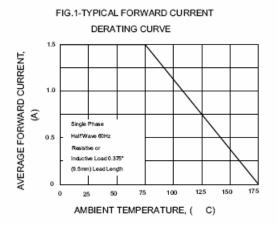


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

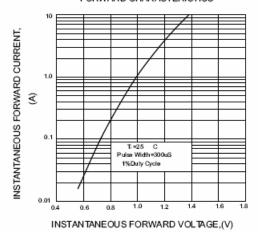
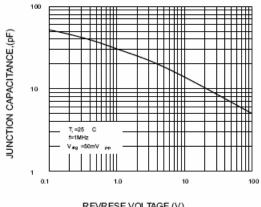
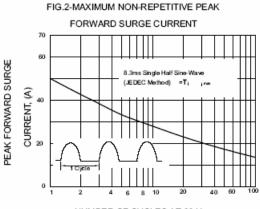


FIG.5-TYPICAL JUNCTION CAPACITANCE



REVRESE VOLTAGE,(V)



NUMBER OF CYCLES AT 60 Hz

FIG.4-TYPICAL REVERSE

