1N5391GP THRU 1N5399GP

SINTERED GLASS JUNCTION PLASTIC RECTIFIER

VOLTAGE:50 TO 1000V CURRENT: 1.5A



FEATURE

High temperature metallurgically bonded construction Sintered glass cavity free junction Capability of meeting environmental standard of MIL-S-19500 High temperature soldering guaranteed 350°C /10sec/0.375"lead length at 5 lbs tension

350°C /10sec/0.375"lead length at 5 lbs tension Operate at Ta =55°C with no thermal run away Typical Ir<0.1μA

MECHANICAL DATA

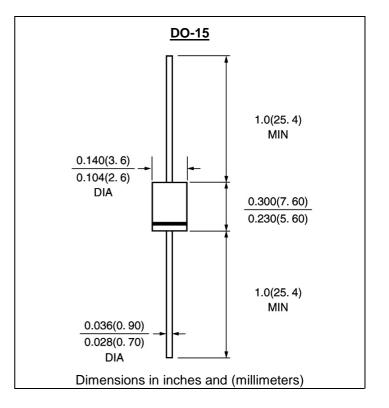
Terminal: Plated axial leads solderable per MIL-STD 202E, method 208C

Case: Molded with UL-94 Class V-0 recognized Flame

Retardant Epoxy

Polarity: color band denotes cathode

Mounting position: any



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	1N5391 GP	1N5392 GP	1N5393 GP	1N5394 GP	1N5395 GP	1N5396 GP	1N5397 GP	1N5398 GP	1N5399 GP	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 =60°C	If(av)	1.5									Α
* Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	Ifsm	50.0									Α
 Maximum Instantaneous Forward Voltage at 1.5A 	Vf	1.4									V
* Maximum full load reverse current full cycle Average at $70^{\circ}\mbox{\ensuremath{C}}$	Ir(av)	300.0									μΑ
Maximum DC Reverse Current Ta =25°C	Ir	5.0									μΑ
at rated DC blocking voltage Ta =150°C	"		300.0								
Typical Reverse Recovery Time (Note 1)	Trr	2.0									μS
Typical Junction Capacitance (Note 2)	Cj	15.0									pF
Typical Thermal Resistance (Note 3)	R(ja)	45.0									°См
* Storage and Operating Junction Temperature	Tstg, Tj	-65 to +175								°C	

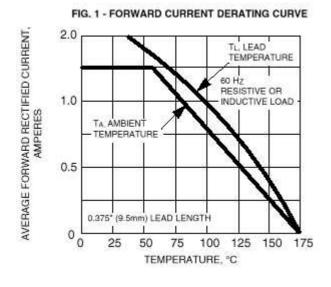
Note:

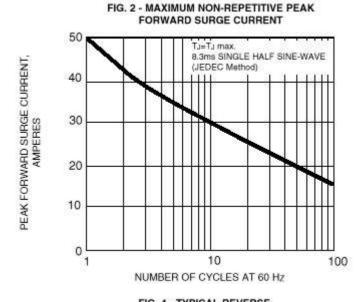
- 1. Reverse Recovery Condition If =0.5A, Ir =1.0A, Irr =0.25A
- 2. Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc
- 3. Thermal Resistance from Junction to Ambient at 3/8"lead length, P.C. Board Mounted

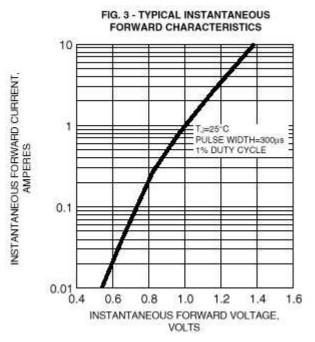
* JEDEC Registered value

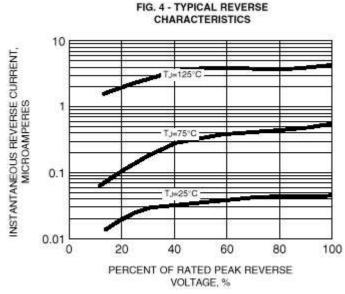
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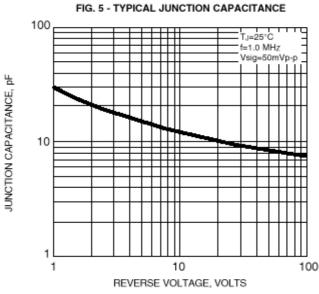
RATINGS AND CHARACTERISTIC CURVES 1N5391GP THRU 1N5399GP

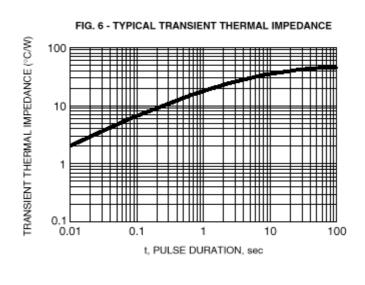












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