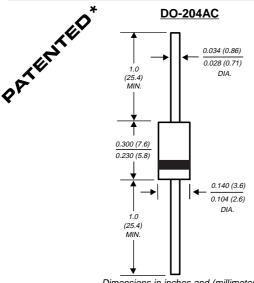
1N5391GP THRU 1N5399GP

GLASS PASSIVATED JUNCTION RECTIFIER

Reverse Voltage - 50 to 1000 Volts

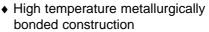
Forward Current - 1.5 Amperes



Dimensions in inches and (millimeters) * Glass-plastic encapsulation technique is covered by
Patent No. 3,996,602 and brazed-lead assembly by Patent No. 3,930,306

FEATURES

 Plastic package has **Underwriters Laboratory** Flammability Classification 94V-0



- ◆ Glass passivated cavity-free junction
- Capable of meeting environmental standards of MIL-S-19500
- ♦ 1.5 Ampere operation at T_A=70°C with no thermal runaway
- ♦ Typical IR less than 0.1μA
- ♦ High temperature soldering guaranteed: 350°C/10 seconds, 0.375" (9.5mm) lead length, 5 lbs. (2.3kg) tension

MECHANICAL DATA

Case: JEDEC DO-204AC molded plastic over glass body Terminals: Plated axial leads, solderable per MIL-STD-750,

Polarity: Color band denotes cathode end

Mounting Position: Any Weight: 0.015 ounce, 0.4 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

	SYMBOLS	1N53 91GP	1N53 92GP	1N53 93GP	1N53 94GP	1N53 95GP	1N53 96GP	1N53 97GP	1N53 98GP	1N53 99GP	UNITS
* Maximum repetitive peak reverse voltage	V _{RRM}	50	100	200	300	400	500	600	800	1000	Volts
* Maximum RMS voltage	VRMS	35	70	140	210	280	350	420	560	700	Volts
* Maximum DC blocking voltage	VDC	50	100	200	300	400	500	600	800	1000	Volts
* Maximum average forward rectified current 0.375" (9.5mm) lead length at T _L =70°C	I(AV)	1.5								Amps	
* Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	50.0								Amps	
* Maximum instantaneous forward voltage at 1.5A, T _A =70°C	VF	1.4								Volts	
*Maximum DC reverse current T _A =25°C T _A =150°C	IR	5.0 300.0								μА	
* Maximum full load reverse current full cycle average, 0 375" (9.5mm) lead length at TA=70°C	I _{R(AV)}	300.0								μА	
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								°C/W	
*Operating junction and storage temperature range	TJ, TSTG	-65 to +175								°C	

NOTES:

- (1) Reverse recovery test condition: IF=0.5A, IR=1.0A, Irr=0.25A
- (2) Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts
- (3) Thermal resistance from junction to ambient at 0.375" (9.5mm) lead length, P.C.B. mounted * JEDEC registered values



RATINGS AND CHARACTERISTIC CURVES 1N5391GP THRU 1N5399GP

