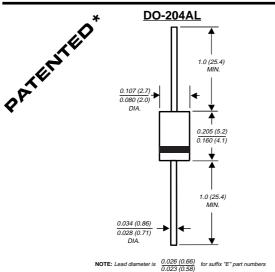
# **1N3611GP THRU 1N3614GP AND 1N3957GP**

## **GLASS PASSIVATED JUNCTION RECTIFIER**

Reverse Voltage - 200 to 1000 Volts

Forward Current - 1.0 Ampere



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
- ♦ High temperature metallurgically bonded construction
- ◆ Capable of meeting environmental standards of MIL-S-19500
- ♦ Glass passivated cavity-free junction
- ◆ 1.0 Ampere operation at T<sub>A</sub>=75°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-204AL molded plastic over glass body Terminals: Plated axial leads, solderable per MIL-STD-750, Method 2026

Polarity: Color band denotes cathode end

Mounting Position: Any Weight: 0.012 ounce, 0.3 gram

#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

	SYMBOLS	1N 3611GP	1N 3612GP	1N 3613GP	1N 3614GP	1N 3957GP	UNITS
* Maximum repetitive peak reverse voltage	VRRM	200	400	600	800	1000	Volts
* Maximum RMS voltage	VRMS	140	280	420	560	700	Volts
* Maximum DC blocking voltage	VDC	200	400	600	800	1000	Amps
* Maximum average forward rectified current 0.375" (9.5mm) lead length at T <sub>A</sub> =75°C	I(AV)	1.0					Amps
* Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I <sub>FSM</sub>	30.0					Amps
Maximum instantaneous forward voltage at 1.0A	VF	1.0					Volts
* Maximum DC reverse current TA=25°C at rated DC blocking voltage TA=150°C	IR	1.0 300.0					μА
Typical reverse recovery time (NOTE 1)	t <sub>rr</sub>	2.0				μs	
Typical junction capacitance (NOTE 2)	CJ	8.0					pF
Typical thermal resistance (NOTE 3)	R⊕ja R⊕jl	55.0 25.0					°C/W
Operating junction and storage temperature range	ТJ, Tsтg	-65 to +175					°C

#### NOTES:

- (1) Reverse recovery test conditions: 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 and from junction to lead at 0.375" (9.5mm) lead length, P.C.B. mounted

JEDEC registered values



# RATINGS AND CHARACTERISTIC CURVES 1N3611GP THRU 1N3614GP AND 1N3957GP

