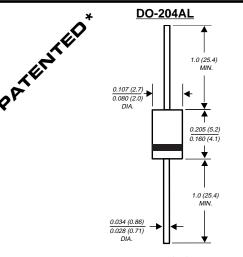
## 1N3611GP THRU 1N3614GP AND 1N3957GP

#### **GLASS PASSIVATED JUNCTION RECTIFIER**

Reverse Voltage - 200 to 1000 Volts Forward Current - 1.0 Ampere

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NOTE: Lead diameter is 0.026 (0.66) 0.023 (0.58) for suffix "E" part numbers

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



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

MIL-S-19500

no thermal runaway
 Typical I<sub>R</sub> less than 0.1μA

5 lbs. (2.3kg) tension

Method 2026 **Polarity:** Color band denotes cathode end **Mounting Position:** Any **Weight:** 0.012 ounce, 0.3 gram

**FEATURES** 

High temperature metallurgically bonded construction
Capable of meeting environmental standards of

Plastic package has Underwriters Laboratory

Flammability Classification 94V-0

Glass passivated cavity-free junction

1.0 Ampere operation at T<sub>A</sub>=75°C with

High temperature soldering guaranteed:

350°C/10 seconds, 0.375" (9.5mm) lead length,

#### 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
<ul> <li>Maximum average forward rectified current</li> <li>0.375" (9.5mm) lead length at T<sub>A</sub>=75°C</li> </ul>	I(AV)	1.0					Amps
<ul> <li>* Peak forward surge current</li> <li>8.3ms single half sine-wave superimposed</li> <li>on rated load (JEDEC Method)</li> </ul>	IFSM	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					μΑ
Typical reverse recovery time (NOTE 1)	trr	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	TJ, TSTG	-65 to +175					°C

#### NOTES:

(1) Reverse recovery test conditions: IF=0.5A, IR=1.0A, Irr =0.25A

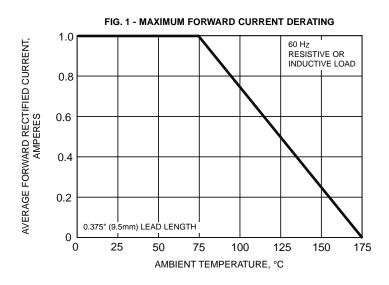
(2) Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts

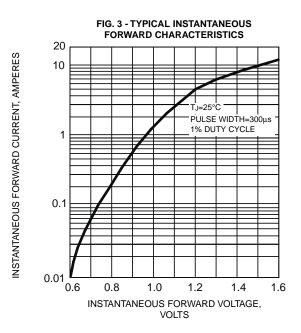
(3) Thermal resistance from junction to ambient and from junction to lead at 0.375" (9.5mm) lead length, P.C.B. mounted

\* JEDEC registered values



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





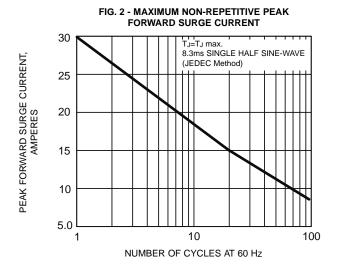
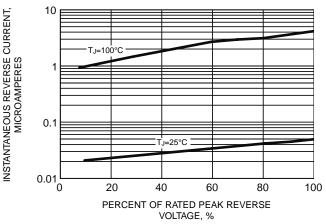


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS



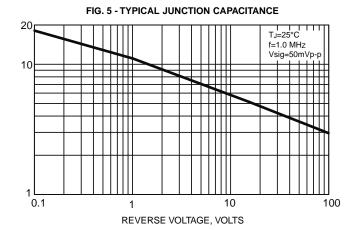


FIG. 6 - TYPICAL TRANSIENT THERMAL IMPEDANCE

TRANSIENT THERMAL IMPEDANCE (°C/W)

GENERAL SEMICONDUCTOR<sup>®</sup>



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