

Glass Passivated Junction Rectifier (Discontinued)

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 $T_A=75^\circ\text{C}$ with no thermal runaway
- Typical I_R less than $0.1\mu\text{A}$
- High temperature soldering guaranteed: $350^\circ\text{C}/10$ seconds, 0.375" (9.5mm) lead length, 5 lbs. (2.3kg) tension



DO-204AL

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 ($T_A=25^\circ\text{C}$ unless noted otherwise)

Symbol	Description	1N3611GP	1N3612GP	1N3613GP	Unit	Conditions
V_{RRM}	Maximum Repetitive Peak Reverse Voltage	200	400	600	V	
V_{RMS}	Maximum RMS Voltage	140	280	420	V	
V_{DC}	Maximum DC Blocking Voltage	200	400	600	V	
I_{F(AV)}	Maximum Average Forward Rectifier Current	1.0			A	0.375" (9.5mm) lead length at $T_A=75^\circ\text{C}$
I_{FSM}	Peak Forward Surge Current	30.0			A	8.3ms single half sine-wave superimposed on rated load (JEDEC Method)

General Semiconductor

Symbol	Description	1N3611GP	1N3612GP	1N3613GP	Unit	Conditions
V_F	Maximum Instantaneous Forward Voltage	1.0			V	I _F =1.0A
I_R	Maximum DC Reverse Current at Rated DC Blocking Voltage	1.0			μA	T _A =25°C
		300.0				T _A =150°C
T_{rr}	Typical Reverse Recovery Time	2.0			μs	Note 1
C_J	Typical Junction Capacitance	8.0			pF	Note 2
R_{thJA}	Typical Thermal Resistance	55.0			°C/W	Note 3
R_{thJL}		25.0				
T_J, T_{STG}	Operating Junction and Storage Temperature Range	-65 to +175			°C	

Notes:

- 1: Reverse recovery test condition: I_F=0.5A, I_R=1.0A, I_{rr}=0.25A.
- 2: Measured at 1.0MHz and applied reverse voltage of 4.0V
- 3: Thermal resistance from junction to ambient and from junction to lead at 0.375" (9.5mm) lead length, P.C.B. mounted.

Typical Characteristics Curves (T_A=25°C unless noted otherwise)

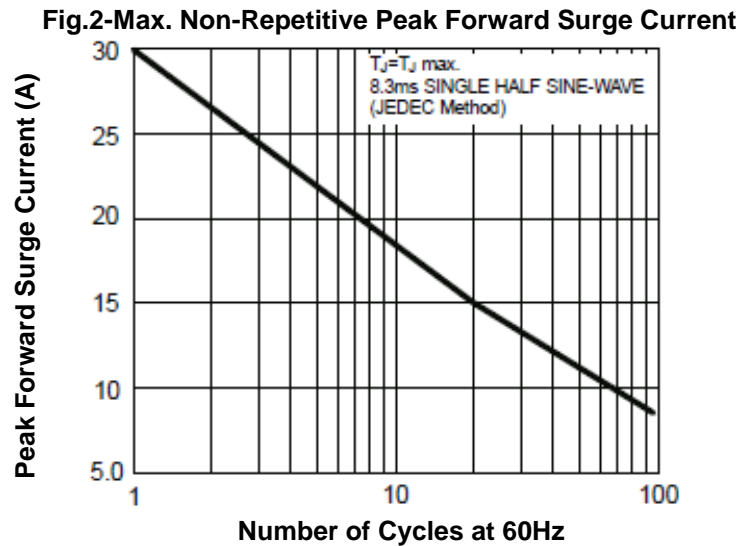
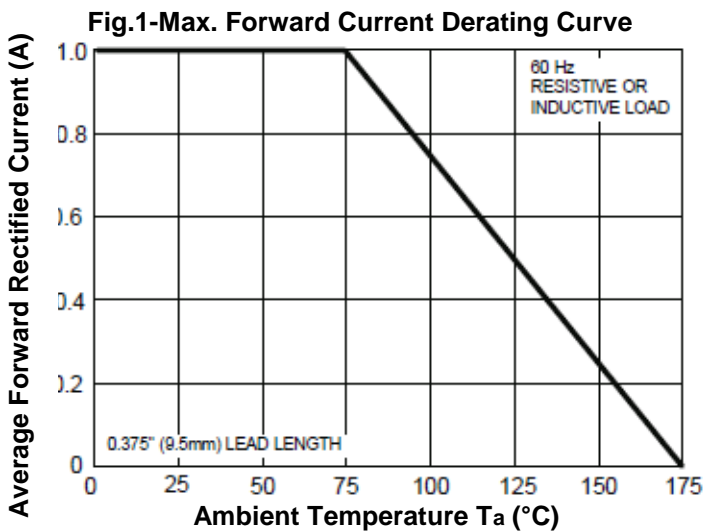


Fig.3- Typical Instantaneous Forward Characteristics

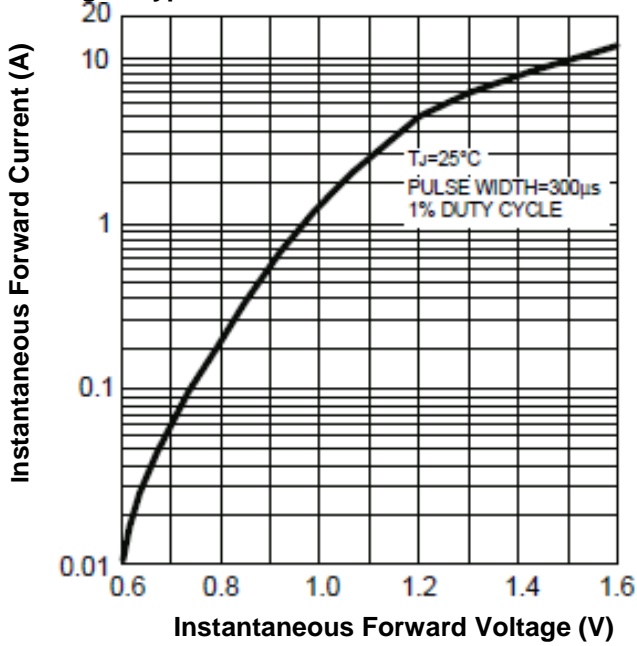


Fig.4-Typical Reverse Characteristics

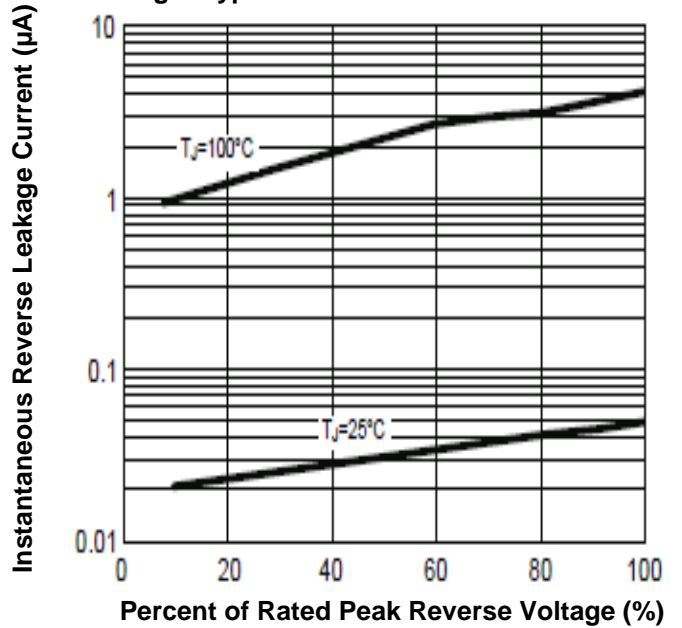


Fig.5- Typical Junction Capacitance

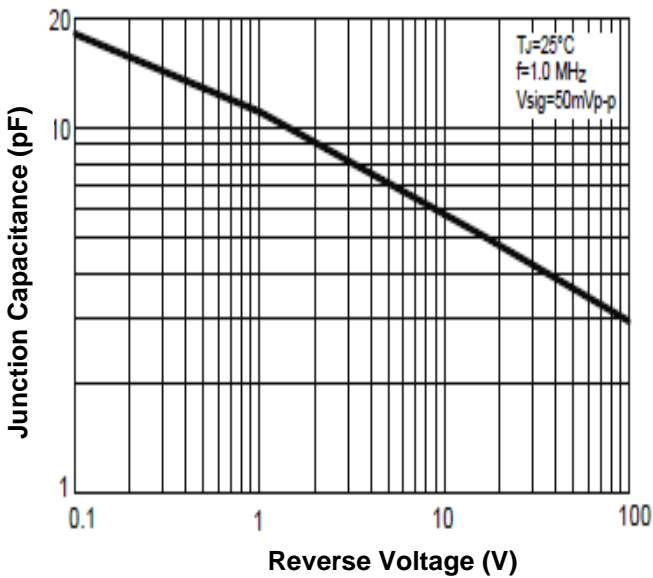
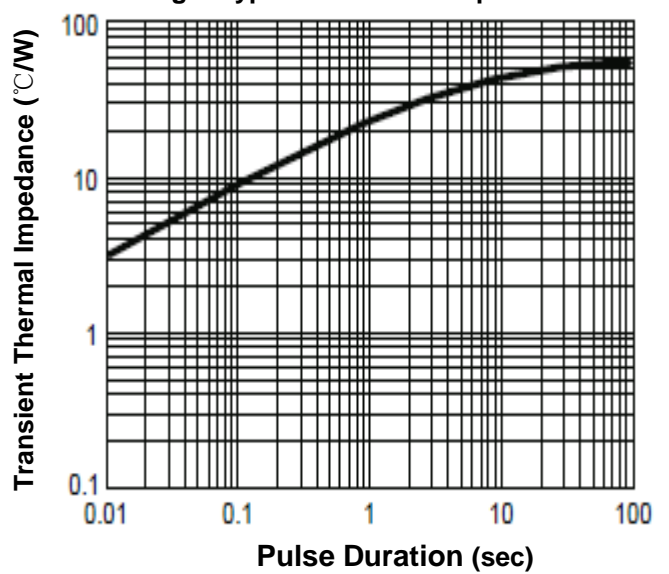
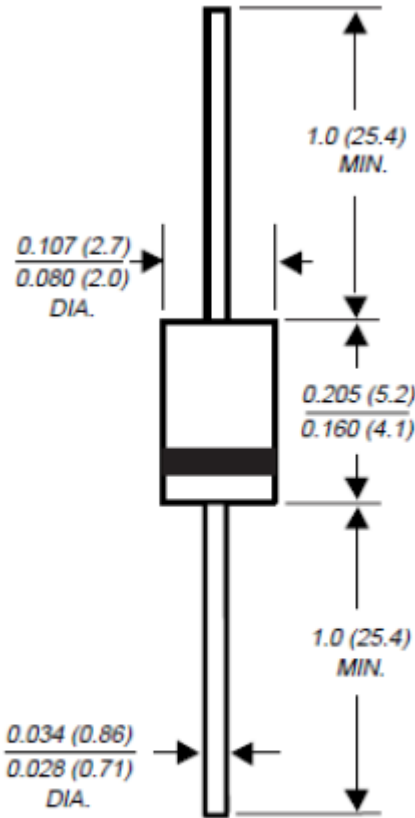


Fig.6-Typical Transient Impedance



Dimensions in inch (mm)



DO-204AL

Order Information

Part # to order	Manufacturer	Outline	Packing	RoHS Status
1N3611GP/1-GSI-B	General Semiconductor	DO-204AL	Bulk	NO
1N3611GP/4-GSI-T30	General Semiconductor	DO-204AL	13" Tape and Reel	NO
1N3612GP/4-GSI-T30	General Semiconductor	DO-204AL	13" Tape and Reel	NO
1N3613GP/4-GSI-T30	General Semiconductor	DO-204AL	13" Tape and Reel	NO

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