

Glass Passivated Junction Rectifier (Discontinued)

Features

- Plastic package has Underwriters Laboratory Flammability 94V-0
- High temperature metallurgically bonded construction
- Capable of meeting environmental standards of MIL-S-19500
- 1.0 Ampere operation at $T_A=75^{\circ}\text{C}$ with no thermal runaway
- Typical IR less than $0.1\mu\text{A}$
- High temperature soldering guaranteed:
350°C/10 seconds, .037" (9.5mm) lead length, 5lbs (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	1N400 1GP	1N400 2GP	1N400 3GP	1N400 4GP	1N400 5GP	1N400 7GP	Unit	Conditions
VRRM	*Maximum Repetitive Peak Reverse Voltage	50	100	200	400	600	1000	V	
VRMS	*Maximum RMS Voltage	35	70	140	280	420	700	V	
VDC	Maximum DC Blocking Voltage	50	100	200	400	600	1000	V	
IF(AV)	*Maximum Average Forward Rectified Current	1.0						A	0.375" (9.5 mm) lead length at $T_A=75^{\circ}\text{C}$
IFSM	*Peak Forward Surge Current	30						A	8.3ms single half sine-wave superimposed on rated load (JEDEC Method)
IR(AV)	*Maximum Full Load Reverse Current, Full Cycle Average	30						μA	0.375" (9.5 mm) lead length at $T_A=75^{\circ}\text{C}$

General Semiconductor

Symbol	Description	1N400 1GP	1N400 2GP	1N400 3GP	1N400 4GP	1N400 5GP	1N400 7GP	Unit	Conditions
V_F	Maximum Instantaneous Forward Voltage	1.1						V	I _F =1.0A
I_R	Maximum DC Reverse Current at Rated DC Blocking Voltage	5.0						μA	T _A =25° C
		50							T _A =125° C
T_{rr}	Typical Reverse Recovery Time	2.0						μs	Note 1
C_J	Typical Junction Capacitance	8						pF	Note 2
R_{thJA}	Typical Thermal Resistance	55						°C / W	Note 3
R_{thJL}		25							
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.

*JEDEC Registered Values

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

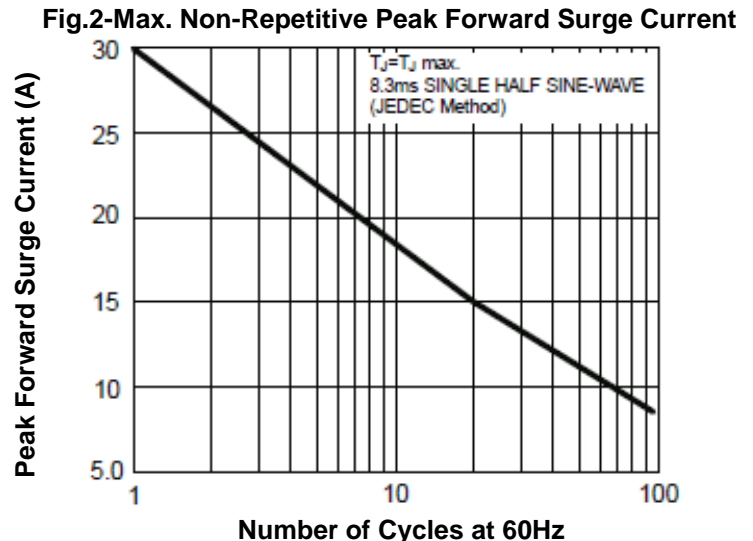
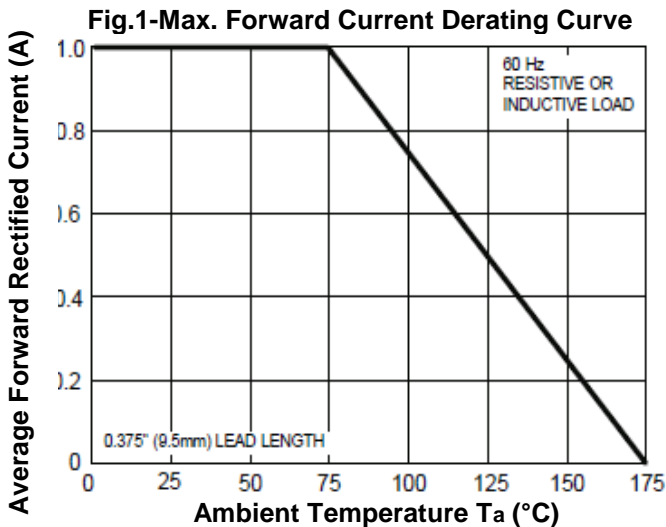


Fig.3- Typical Instantaneous Forward Characteristics

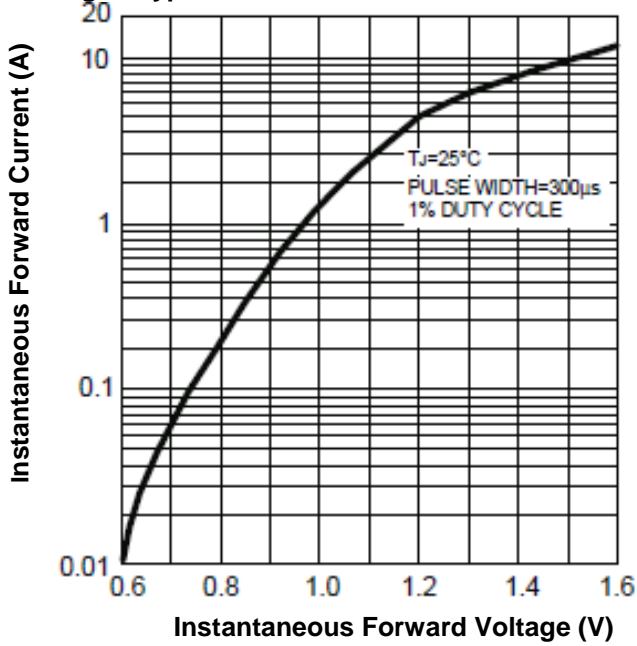


Fig.4-Typical Reverse Characteristics

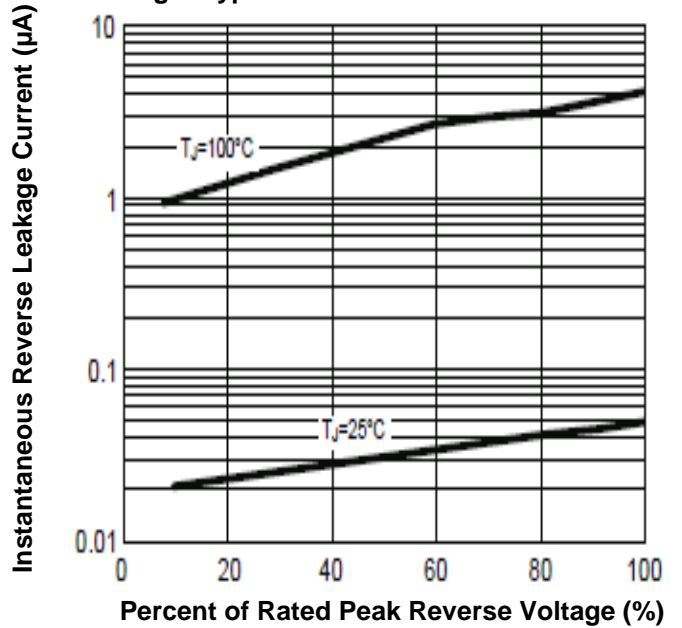


Fig.5- Typical Junction Capacitance

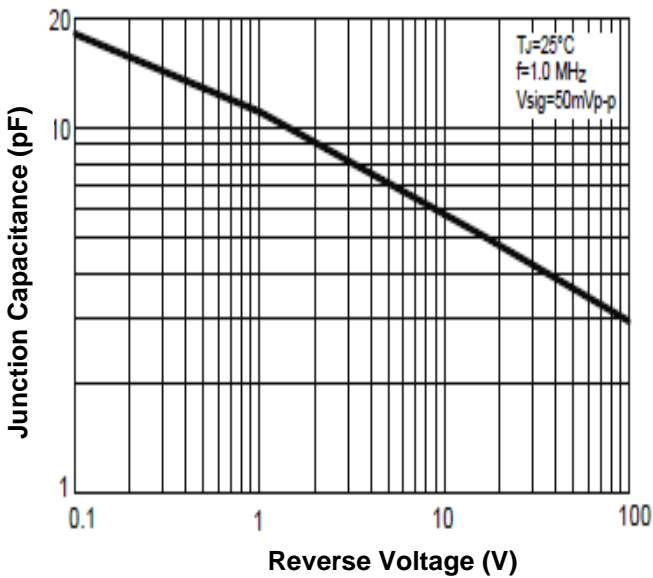
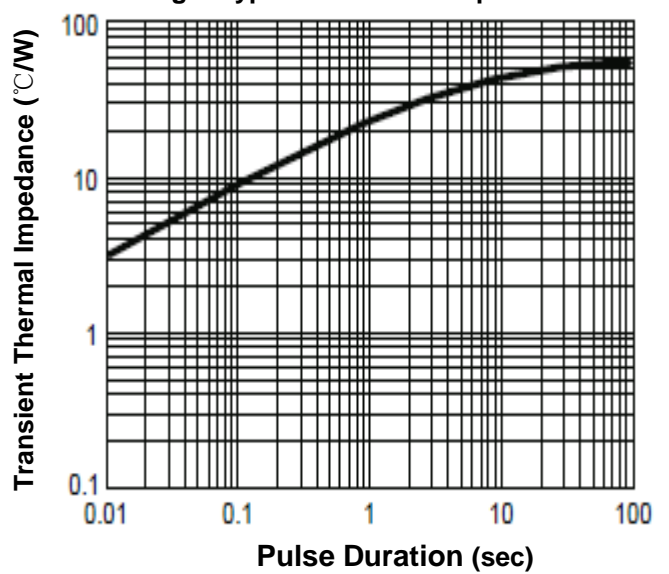
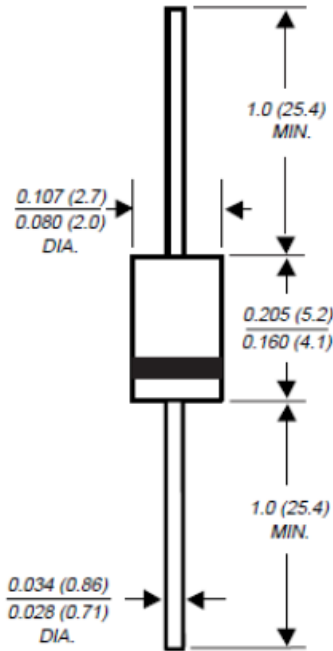


Fig.6-Typical Transient Impedance



Dimensions in inch (mm)



DO-204AL

Order Information

Part # to order	Manufacturer	Outline	Packing	RoHS Status
1N4001GP/4-GSI-T30	General Semiconductor	DO-204AL	13" Tape and Reel	NO
1N4002GP/1-GSI-B	General Semiconductor	DO-204AL	Bulk	NO
1N4002GP/4-GSI-T30	General Semiconductor	DO-204AL	13" Tape and Reel	NO
1N4003GP/1-GSI-B	General Semiconductor	DO-204AL	Bulk	NO
1N4003GP/4-GSI-T30	General Semiconductor	DO-204AL	13" Tape and Reel	NO
1N4004GP/1-GSI-B	General Semiconductor	DO-204AL	Bulk	NO
1N4004GP/4-GSI-T30	General Semiconductor	DO-204AL	13" Tape and Reel	NO
1N4005GP/4-GSI-T30	General Semiconductor	DO-204AL	13" Tape and Reel	NO
1N4007GP/4-GSI-T30	General Semiconductor	DO-204AL	13" Tape and Reel	NO

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