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 TA=55°C with no thermal runaway
- Glass passivated cavity-free junction
- 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=25ºC unless noted otherwise)*

Symbol	Description	1N4246GP	1N4247GP	1N4248GP	Unit	Conditions
V_{RRM}	*Maximum Repetitive Peak Reverse Voltage	400	600	800	V	
V_{RMS}	*Maximum RMS Voltage	280	420	560	V	
V_{DC}	Maximum DC Blocking Voltage	400	600	800	V	
$I_{F(AV)}$	*Maximum Average Forward Rectified Current	1.0			A	0.375" (9.5 mm) lead length at TA=75 °C
I_{FSM}	*Peak Forward Surge Current	25			A	8.3ms single half sine-wave superimposed on rated load (JEDEC Method)
$I_{R(AV)}$	*Maximum Full Load Reverse Current, Full Cycle Average	50			µA	0.375" (9.5 mm) lead length at TA=55 °C

Symbol	Description	1N4246GP	1N4247GP	1N4248GP	Unit	Conditions
V_F	Maximum Instantaneous Forward Voltage	1.2			V	I_F=1.0A
I_R	Maximum DC Reverse Current at Rated DC Blocking Voltage	1.0			μA	T_A=25° C
		25.0				T_A=125° C
C_J	Typical Junction Capacitance	8			pF	Note 1
R_{thJA}	Typical Thermal Resistance	55			°C / W	Note 2
R_{thJL}		25				
T_J	*Operating Junction Temperature Range	-65 to +160			°C	
T_{STG}	Storage Temperature Range	-65 to +175			°C	

Notes:
1. Measured at 1.0MHz and applied reverse voltage of 4.0V
2. 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=25ºC unless noted otherwise)*

Fig.1-Max. Forward Current Derating Curve

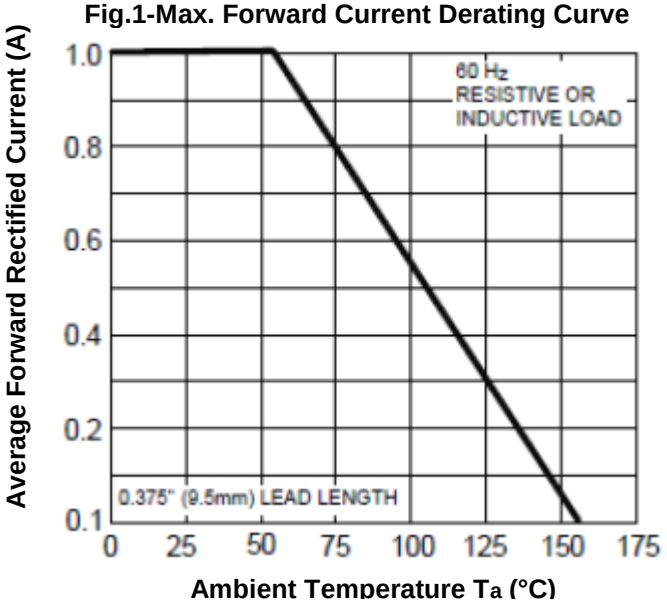


Fig.2-Max. Non-Repetitive Peak Forward Surge Current

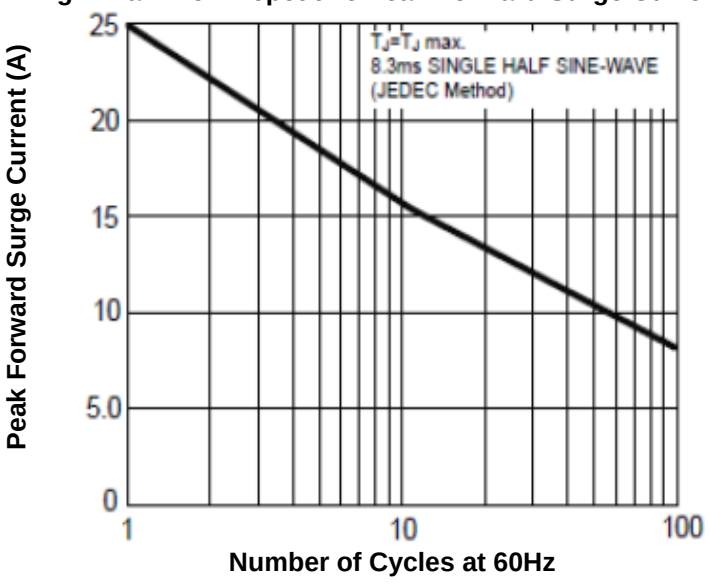


Fig.3- Typical Instantaneous Forward Characteristics

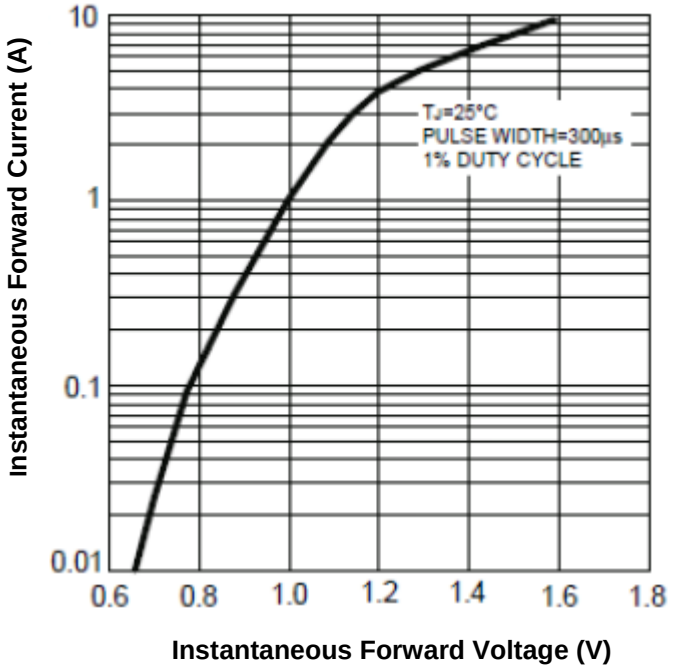


Fig.4-Typical Reverse Characteristics

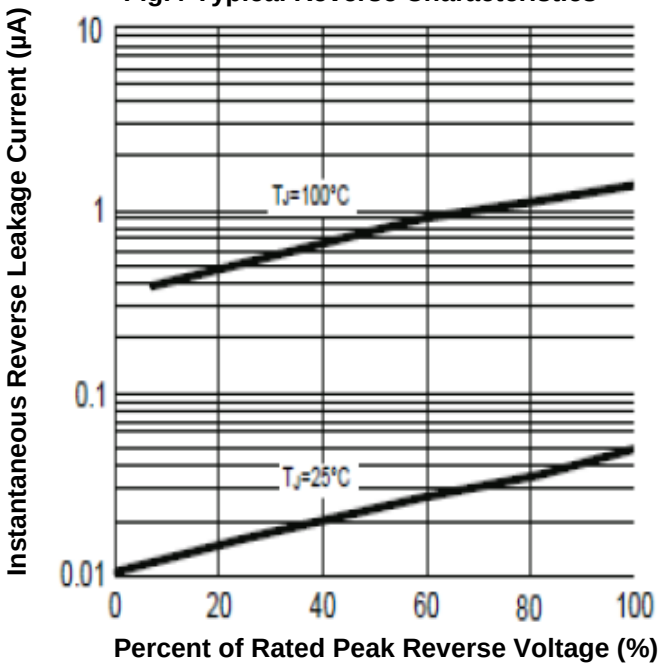


Fig.5- Typical Junction Capacitance

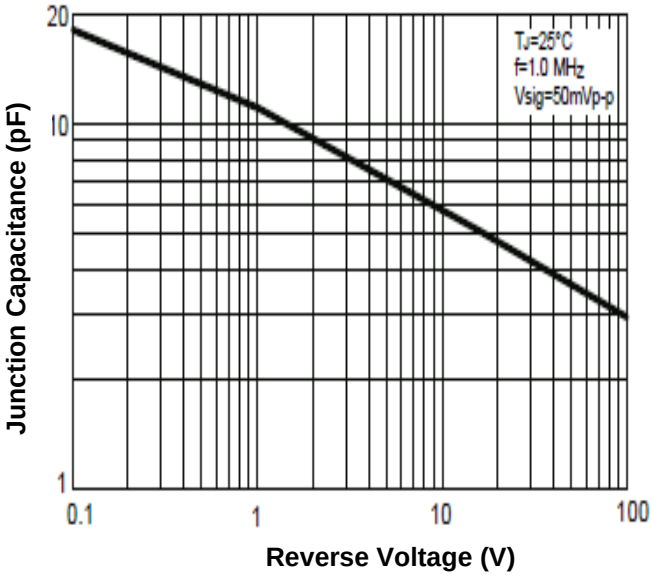
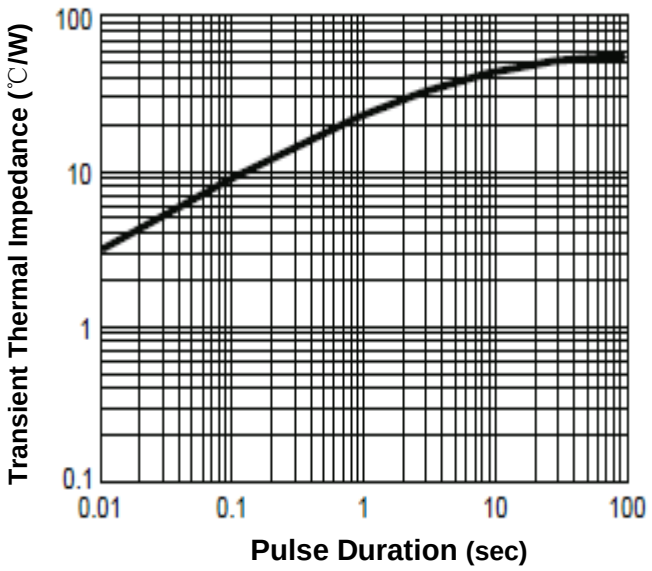
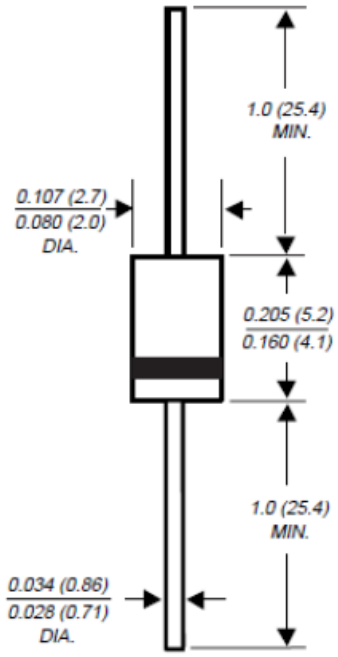


Fig.6-Typical Transient Impedance



Dimensions in inch (mm)



DO-204AL

Order Information

Part # to order	Manufacturer	Outline	Packing	RoHS Status
1N4246GP/4-GSI-T30	General Semiconductor	DO-204AL	13” Tape and Reel	NO
1N4247GP/4-GSI-T30	General Semiconductor	DO-204AL	13” Tape and Reel	NO
1N4248GP/4-GSI-T30	General Semiconductor	DO-204AL	13” Tape and Reel	NO

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