

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=75°C with no thermal runaway
- Hermetically sealed package
- Typical IR less than 0.1µA
- High temperature soldering guaranteed:
350°C/10 seconds, .037" (9.5mm) lead length,
5lbs (2.3kg) tension



DO-204AP

Mechanical Data

Case:	JEDEC DO-204AP solid glass body
Terminals:	Plated axial leads, solderable per MIL-STD-750, Method 2026
Polarity:	Color band denotes cathode end
Mounting Position:	Any
Weight:	0.02 ounce, 0.56 gram

Maximum Ratings and Electrical Characteristics ($T_A=25^\circ\text{C}$ unless noted otherwise)

Symbol	Description	1N4246	Unit	Conditions
VRRM	*Maximum Repetitive Peak Reverse Voltage	400	V	
VRMS	*Maximum RMS Voltage	280	V	
VDC	Maximum DC Blocking Voltage	400	V	
IF(AV)	*Maximum Average Forward Rectified Current	1.0	A	0.375" (9.5 mm) lead length at TA=55 °C
IFSM	*Peak Forward Surge Current	50	A	8.3ms single half sine-wave superimposed on rated load (JEDEC Method)
IR(AV)	*Maximum Full Load Reverse Current, Full Cycle Average	50	µA	0.375" (9.5 mm) lead length at TA=55 °C

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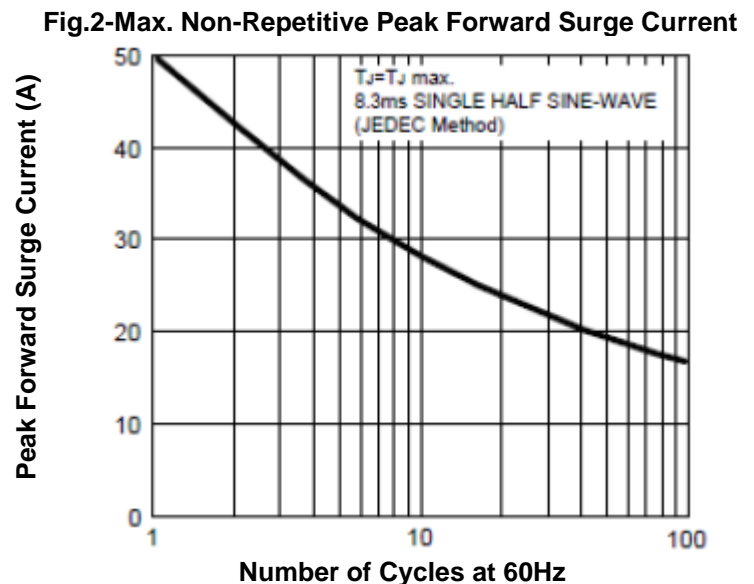
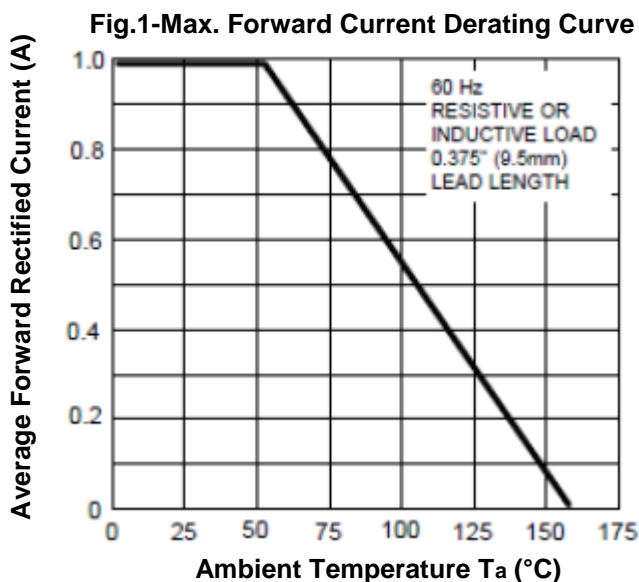
Symbol	Description	1N4246	Unit	Conditions
V_F	Maximum Instantaneous Forward Voltage	1.2	V	I _F =1.0A
I_R	*Maximum DC Reverse Current at Rated DC Blocking Voltage	1.0	μA	T _A =25° C
		25.0		T _A =125° C
C_J	Typical Junction Capacitance	15	pF	Note 1
R_{thJA}	Typical Thermal Resistance	55	°C / W	Note 2
T_J	*Operating Junction Temperature Range	-65 to +160	°C	
T_{STG}	Storage Temperature Range	-65 to +200	°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=25°C unless noted otherwise)*



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Fig.3- Typical Instantaneous Forward Characteristics

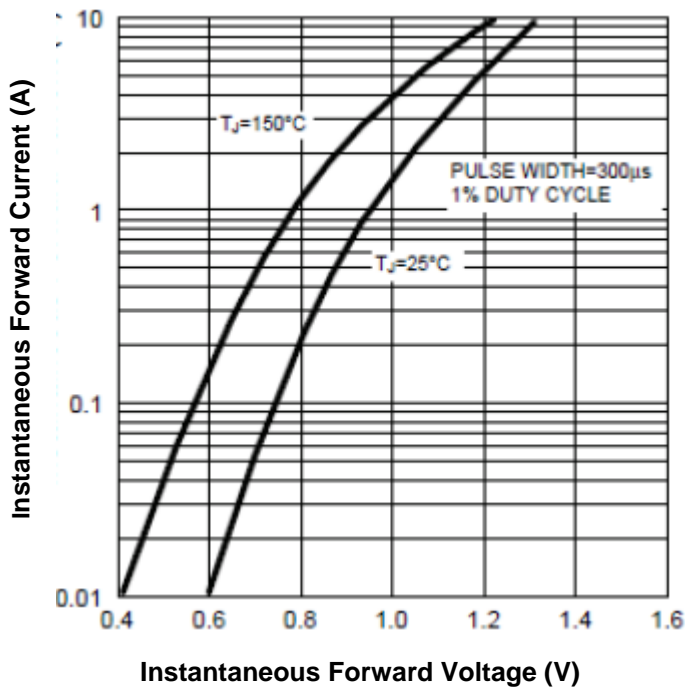


Fig.4-Typical Reverse Characteristics

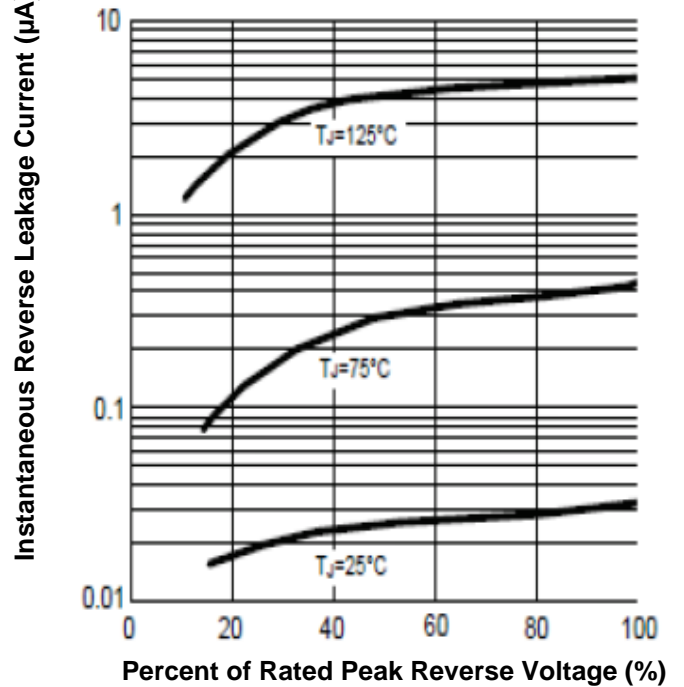
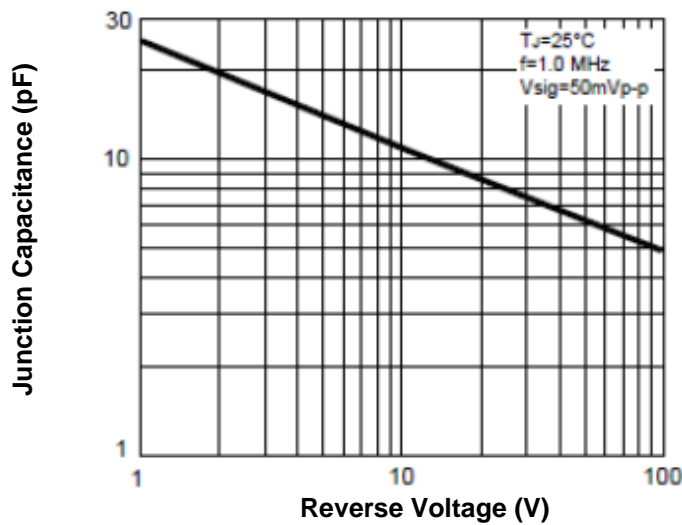
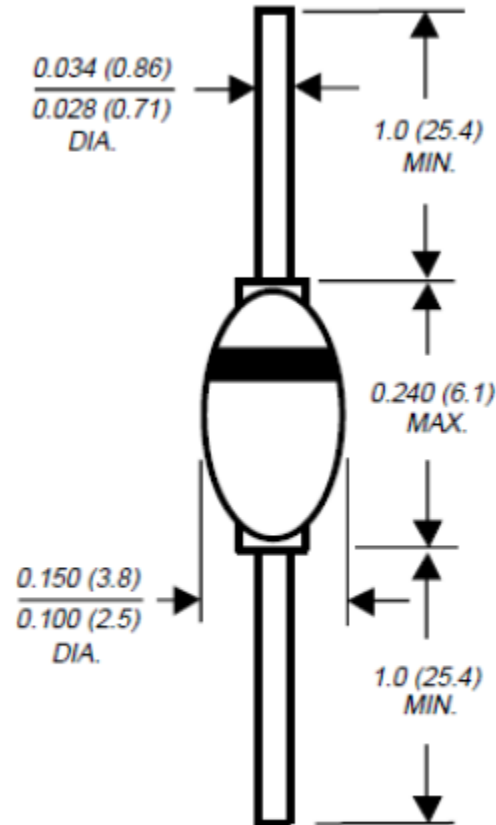


Fig.5- Typical Junction Capacitance



Dimensions in inch (mm)



DO-204AP

Order Information

Part # to order	Manufacturer	Outline	Packing	RoHS Status
1N4246/4-GSI-T30	General Semiconductor	DO-204AP	13" Tape and Reel	NO

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