

Internet Super Store

General Semiconductor

Glass Passivated Junction Rectifier (Discontinued)

Features

- High temperature metallurgically bonded construction
- Glass passivated cavity-free junction package
- Capable of meeting environmental standards of MIL-S-19500
- 3.0 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



G4

Mechanical Data

Case:	Solid glass body		
Terminals:	Plated axial leads, solderable per MIL-STD-750, Method 2026		
Polarity:	Color band denotes cathode end		
Mounting Position:	Any		
Weight:	0.037 ounce, 1.04 gram		

Maximum Ratings and Electrical Characteristics (*T*_A=25°C unless noted otherwise)

Symbol	Description	G4D	G4J	Unit	Conditions	
VRRM	Maximum Repetitive Peak Reverse Voltage	200	600	V		
VRMS	Maximum RMS Voltage	140	420	V		
VDC	Maximum DC Blocking Voltage	200	600	V		
lF(AV)	Maximum Average Forward Rectified Current	3.0		Α	0.375" (9.5 mm) lead length at TA=70 °C	
IFSM	Peak Forward Surge Current	100.0		А	8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	

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Rev. A/NX

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Symbol	Description	G3K	G3M	Unit	Conditions	
VF	Maximum Instantaneous Forward Voltage	1.1		V	IF=3.0A	
lR(AV)	Maximum Full Load Reverse Current	200.0		μΑ	Full Cycle Average 0.375" (9.5 mm) lead length at TA=70 °C	
lo.	Maximum DC Reverse Current at Rated DC Blocking Voltage	1.0		μA	TA=25 °C	
IR		100.0			TA=100 °C	
Trr	Typical Reverse Recovery Time	3.0		μs	Note 1	
Сı	Typical Junction Capacitance	40.0		pF	Note 2	
RthJA	Typical Thermal	22	2.0	°C/W	Note 3	
RthJL	Resistance	12.0		C / VV	Note 3	
ТЈ,Тѕтс	Operating Junction and Storage Temperature Range	-65 to +175		°C		

Notes:

- 1: Measured with IF=0.5A, IR=1.0A, Irr=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, with both leads mounted between heat sinks

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



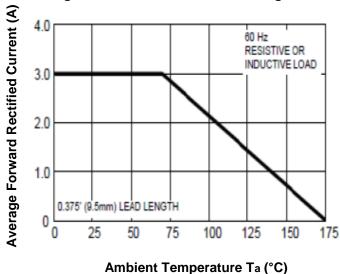


Fig.2-Max. Non-Repetitive Peak Forward Surge Current

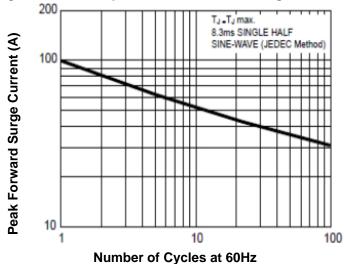


Fig.3- Typical Instantaneous Forward Characteristics

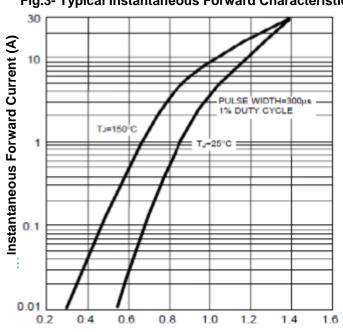
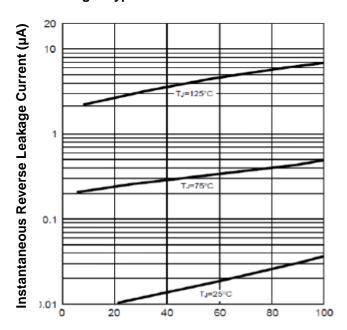
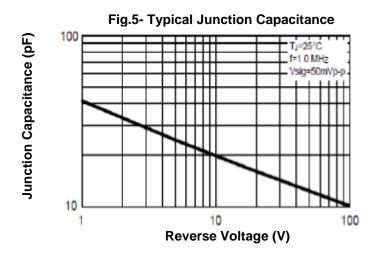


Fig.4-Typical Reverse Characteristics

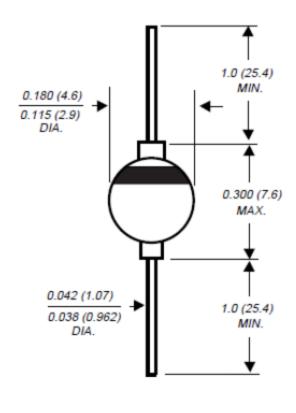


Instantaneous Forward Voltage (V)

Percent of Rated Peak Reverse Voltage (%)



Dimensions in inch (mm)



Order Information

Part # to order	Manufacturer	Outline	Packing	RoHS Status
G4D/4-GSI-T30	General Semiconductor	G4	13" Tape and Reel	ОИ
G4J/4-GSI-T30	General Semiconductor	G4	13" Tape and Reel	NO

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How to contact us

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