

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=70°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



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:	0.04 ounce, 1.1 gram		

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

Symbol	Description	G3K	G3M	Unit	Conditions	
VRRM	Maximum Repetitive Peak Reverse Voltage	800	1000	V		
VRMS	Maximum RMS Voltage	560	700	V		
VDC	Maximum DC Blocking Voltage	800	1000	V		
lF(AV)	Maximum Average Forward Rectified Current	3.0)	А	0.375" (9.5 mm) lead length at TA=70 °C	
IFSM	Peak Forward Surge Current	125.0		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	5.0		μA	TA=25 °C	
İR	Current at Rated DC Blocking Voltage	100.0			TA=150 °C	
Trr	Typical Reverse Recovery Time	3.0		μs	Note 1	
Сı	Typical Junction Capacitance	40.0		pF	Note 2	
RthJA	Typical Thermal	20	0.0	°C/W	Note 3	
RthJL	Resistance	10.0		O / VV	NOIG 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*)

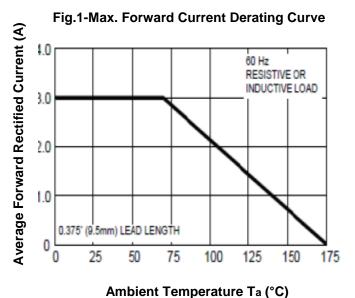


Fig.2-Max. Non-Repetitive Peak Forward Surge Current

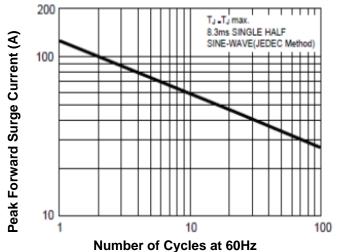


Fig.3- Typical Instantaneous Forward Characteristics

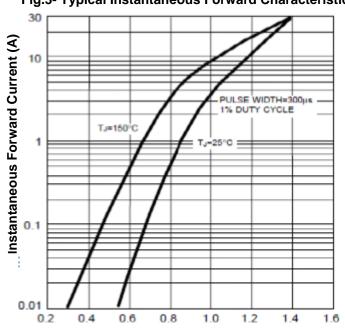
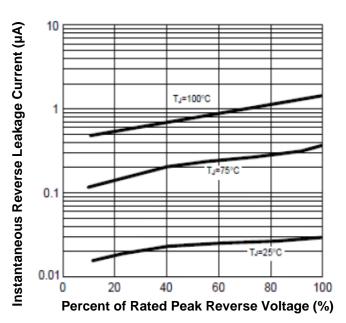
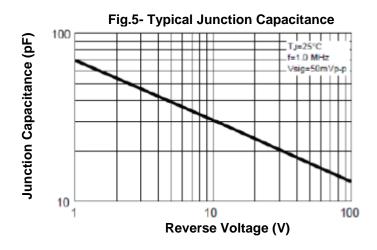


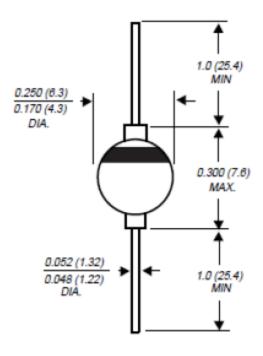
Fig.4-Typical Reverse Characteristics



Instantaneous Forward Voltage (V)



Dimensions in inch (mm)



G3

Order Information

Part # to order	Manufacturer	Outline	Packing	RoHS Status
G3K/4-GSI-T30	General Semiconductor	G3	13" Tape and Reel	NO
G3M/4-GSI-T30	General Semiconductor	G3	13" Tape and Reel	NO

How to contact us

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