Clamper / Damper Glass Passivated Rectifier (Discontinued)

Features

- Specially designed for clamping circuits horizontal deflection systems and damper applications
- 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=50°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

DG3

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=25ºC unless noted otherwise)*

Symbol	Description	CG3	DG3	Unit	Conditions
V_{RRM}	Maximum Repetitive Peak Reverse Voltage	1400	1500	V	
V_{RMS}	Maximum RMS Voltage	980	1050	V	
V_{DC}	Maximum DC Blocking Voltage	1400	1500	V	
$I_{F(AV)}$	Maximum Average Forward Rectified Current	3.0		A	0.375" (9.5 mm) lead length at TA=50 °C
I_{FSM}	Peak Forward Surge Current	100.0		A	8.3ms single half sine-wave superimposed on rated load (JEDEC Method)

Symbol	Description	CG3	DG3	Unit	Conditions
V_F	Maximum Instantaneous Forward Voltage	1.2		V	I_F=3.0A
$I_{R(AV)}$	Maximum Full Load Reverse Current	200.0		μA	Full Cycle Average 0.375" (9.5 mm) lead length at T_A=70 °C
I_R	Maximum DC Reverse Current at Rated DC Blocking Voltage	5.0		μA	T_A=25 °C
		100.0			T_A=100 °C
Trr	Typical Reverse Recovery Time	15.0	20.0	μs	Note 1
C_J	Typical Junction Capacitance	40.0		pF	Note 2
R_{thJA}	Typical Thermal Resistance	20.0		°C / W	Note 3
T_J,T_{STG}	Operating Junction and Storage Temperature Range	-65 to +175		°C	

Notes:
1: Measured with: I_F=0.5A, I_R=50mA
2: Measured at 1.0MHz and applied reverse voltage of 4.0V
3: Thermal resistance from junction to ambient at 0.375" (9.5mm) lead length, with leads attached to head sinks.

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

Fig.1-Max. Forward Current Derating Curve

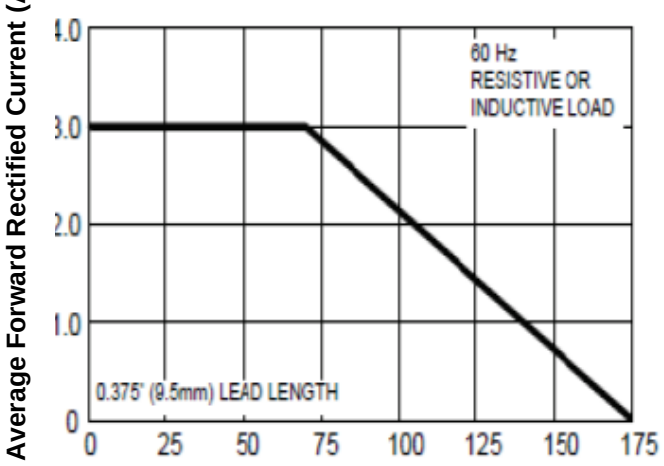


Fig.2-Max. Non-Repetitive Peak Forward Surge Current

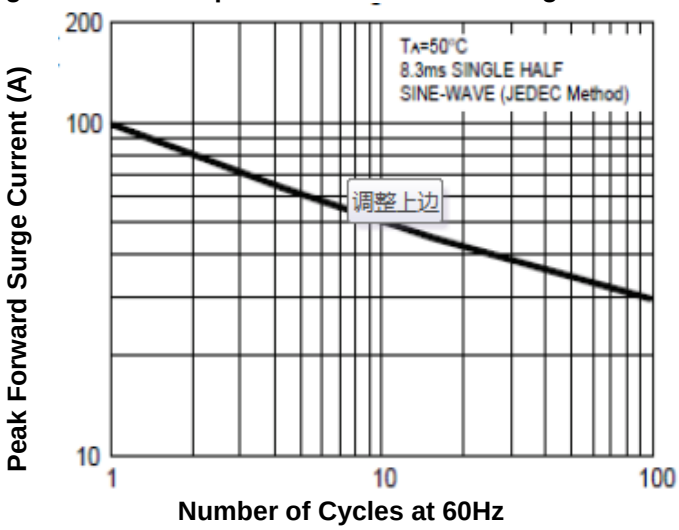


Fig.3- Typical Instantaneous Forward Characteristics

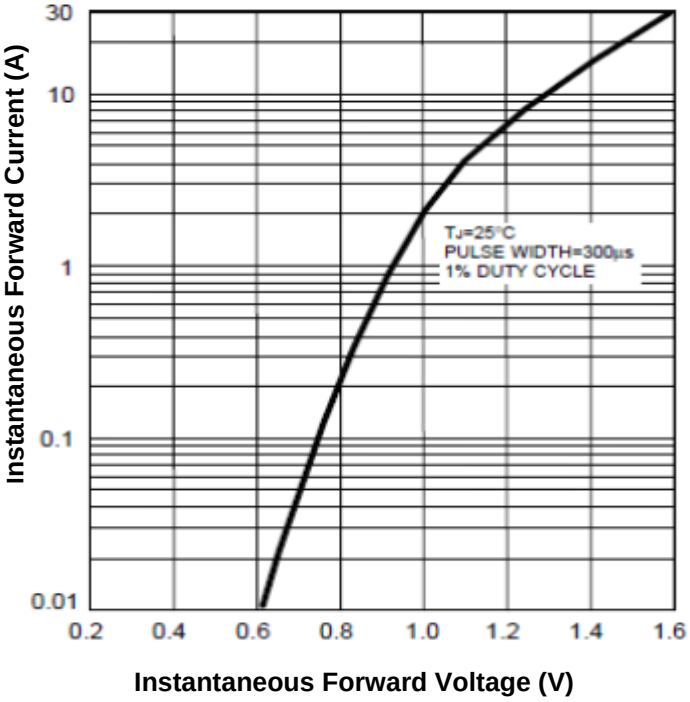


Fig.4-Typical Reverse Characteristics

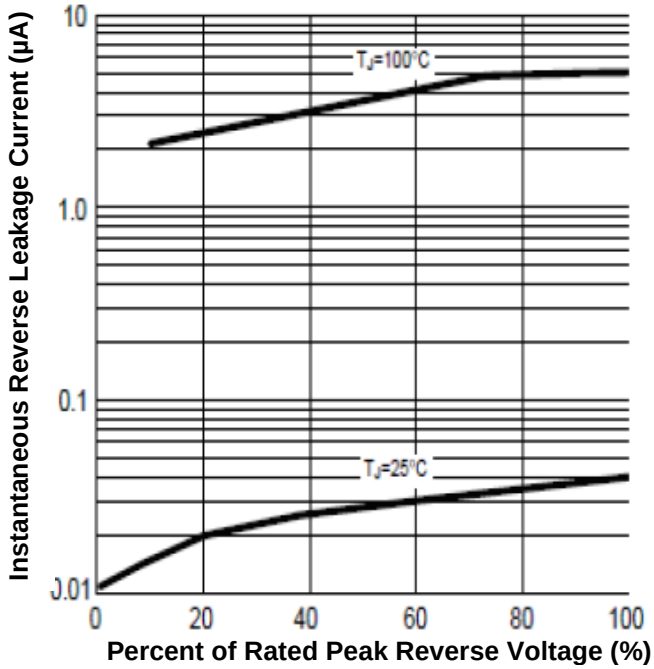
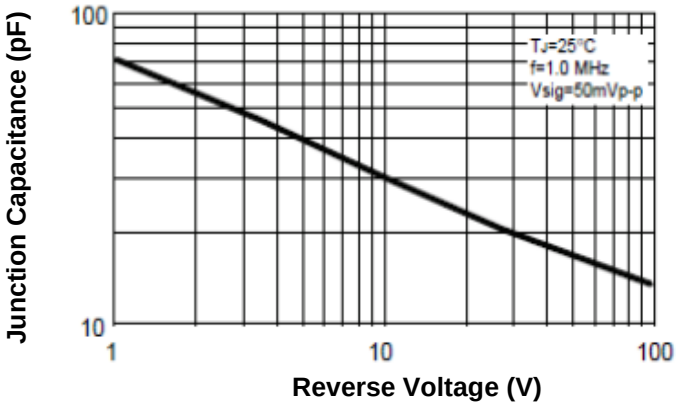
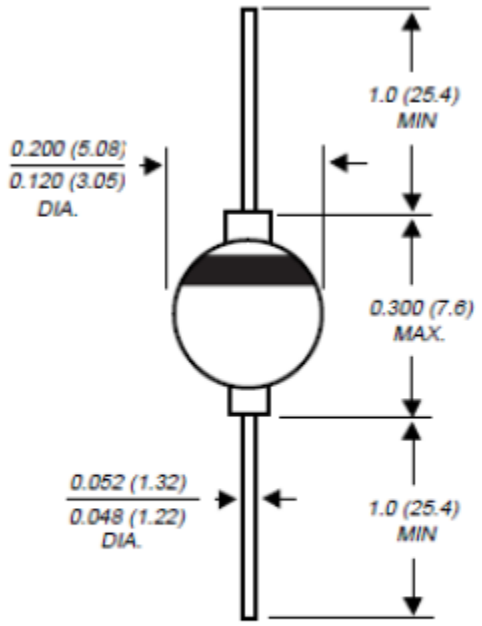


Fig.5- Typical Junction Capacitance



Dimensions in inch (mm)



DG3

Order Information

Part # to order	Manufacturer	Outline	Packing	RoHS Status
CG3/1-GSI-B	General Semiconductor	DG3	Bulk	NO
DG3/4-GSI-T30	General Semiconductor	DG3	13” Tape and Reel	NO

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