

GSV03G Sintered Glass Junction Avalanche Rectifier

Features

- Glass passivated
- Hermetically sealed package
- Low reverse current
- Soft recovery characteristics

Mechanical Data

- Case: SOD-57 sintered glass case
- Terminal: Plated axial leads solderable per

MIL-STD 202E, method 208C

- Polarity: color band denotes cathode end
- Mounting position: any



Dimensions in inches (millimeters)

Package: SOD-57

Absolute Maximum Ratings and Electrical Characteristics

(single-phase, half-wave, 60HZ, resistive or inductive load rating at 25°C, unless otherwise stated)

Parameter	Symbol	Value	Unit
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	600	V
Maximum RMS Voltage	V _{RMS}	420	V
Maximum DC blocking Voltage	V _{DC}	600	V
Maximum Average Forward Rectified Current 3/8"lead length at T_A =55°C	I _{FAV}	1.5	A
Peak Forward Surge Current 8.3ms single half sine- superimposed on rated load	-wave I _{FSM}	50	А
Maximum Forward Voltage at rated Forward Current and	25°C V _F	1.1	V
Maximum DC Reverse Current at V_{DC} =600V and 25°C	I _R	5.0	μΑ
Maximum DC Reverse Current at V_{DC} =650V and 25°C	I _R	5.0	μΑ
Maximum DC Reverse Current at V_{DC} =700V and 25°C	I _R	25.0	μΑ
Maximum DC Reverse Current at V _{DC} =600V and 150°C	I _R	200	μΑ
Typical Reverse Recovery Time (No	ote 1) Trr	2.0	μs
Typical Junction Capacitance (No	ote 2) Cj	25.0	pF
Typical Thermal Resistance (No	ote 3) Rth(ja)	45.0	°C/W
Storage and Operating Junction Temperature	Tstg, Tj	-65 to +175	°C

Note:

1. Reverse Recovery Condition If =0.5A, Ir =1.0A, Irr =0.25A

2. Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc

3. Thermal Resistance from Junction to Ambient at 3/8"lead length, P.C. Board Mounted



Ratings and Characteristic Curves



