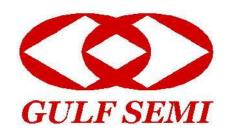
BY448

SINTERED GLASS JUNCTION AVALANCHE RECTIFIER

VOLTAGE:1500V CURRENT: 2.0A



FEATURE

Glass passivated High maximum operating temperature Low leakage current Excellent stability

MECHANICAL DATA

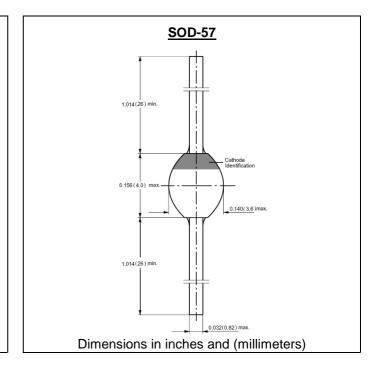
Case: SOD-57 sintered glass case

Terminal: Plated axial leads solderable per MIL-STD 202E,

method 208C

Polarity: color band denotes cathode end

Mounting position: any



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(single-phase, half-wave, 60HZ, resistive or inductive load rating at 25°C, unless otherwise stated, for capacitive load, derate current by 20%)

	SYMBOL	BY448	units
Maximun Repetitive Peak Reverse Voltage	Vrrm	1500	V
Maximum RMS Voltage	Vrms	1050	V
Maximum DC blocking Voltage	Vdc	1500	V
Maximum Average Forward Rectified Current	If(av)	2.0	А
Non-Repetitive Peak Forward Surge Current at tp=half sinewave	=10ms Ifsm	30.0	А
Maximum Instantaneous Forward Voltage at 3.0A	Vf	1.60	V
Maximum DC Reverse Current Ta = at rated DC blocking voltage Ta =1	25°C Ir 50°C	5.0 150.0	μА
Typical Reverse Recovery Time (No.	ote 1) Trr	2000	nS
Typical Thermal Resistance (No.	ote 2) Rth(ja)	100	K/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. on PC with spacing 25mm

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RATINGS AND CHARACTERISTIC CURVES BY448

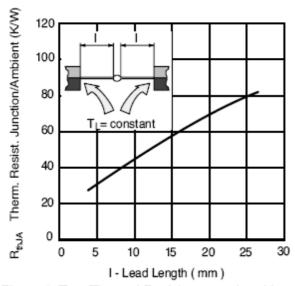


Figure 1. Typ. Thermal Resistance vs. Lead Length

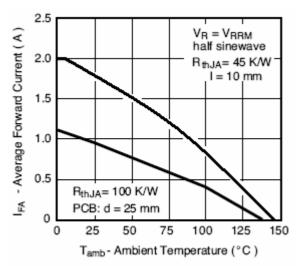


Figure 3. Max. Average Forward Current vs. Ambient Temperature

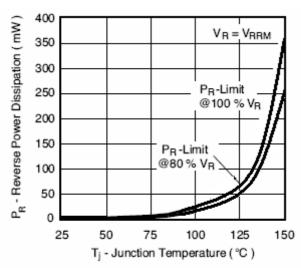


Figure 5. Max. Reverse Power Dissipation vs. Junction Temperature

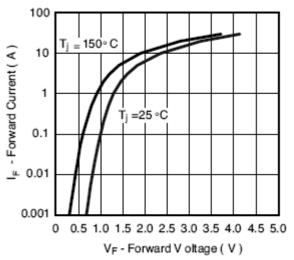


Figure 2. Forward Current vs. Forward Voltage

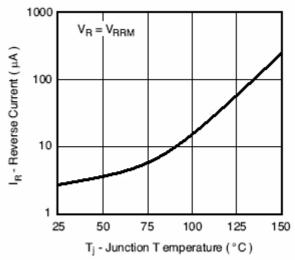


Figure 4. Reverse Current vs. Junction Temperature

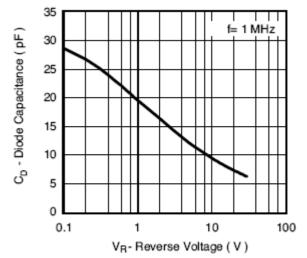


Figure 6. Diode Capacitance vs. Reverse Voltage

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