BY268

SINTERED GLASS JUNCTION
FAST AVALANCHE RECTIFIER

VOLTAGE:1400 **CURRENT: 0.8A**

GULF SEMI

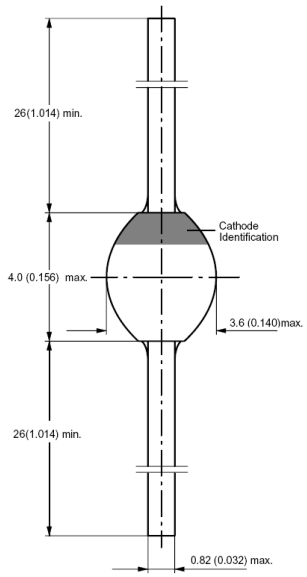
FEATURE

Glass passivated junction
Hermetically sealed package

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

SOD-57



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

	SYMBOL	BY268	units
Maximum Recurrent Peak Reverse Voltage	Vrrm	1400	V
Maximum RMS Voltage	Vrms	980	V
Maximum DC blocking Voltage	Vdc	1400	V
Non-Repetitive Peak Reverse Voltage	Vrsm	1600	V
Maximum Average Forward Rectified Current 3/8"lead length at Ta =55°C	If(av)	0.8	A
Peak Forward Surge Current at Tp=10ms half sinewave	Ifsm	20.0	A
Maximum Forward Voltage at 0.4A and 25°C	Vf	1.25	V
Maximum DC Reverse Current Ta =25°C at rated DC blocking voltage Ta =100°C	Ir	2.0 15.0	μA
Maximum Reverse Recovery Time (Note 1)	Trr	400	nS
Typical Thermal Resistance (Note 2)	Rth(ja)	110.0	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. Thermal Resistance from Junction to Ambient on P.C. board with spacing 25mm

Figure 1. Typ. Thermal Resistance vs. Lead Length

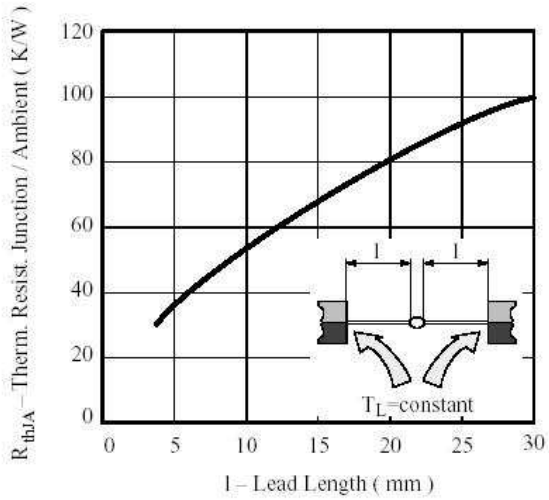


Figure 2. Reverse Current vs. Junction Temperature

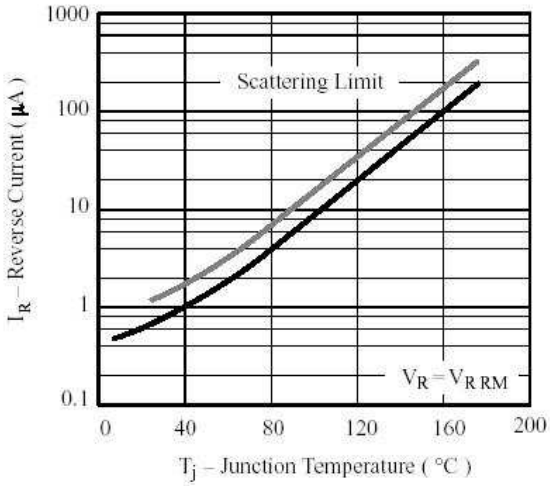


Figure 3. Typ. Forward Current vs. Forward Voltage

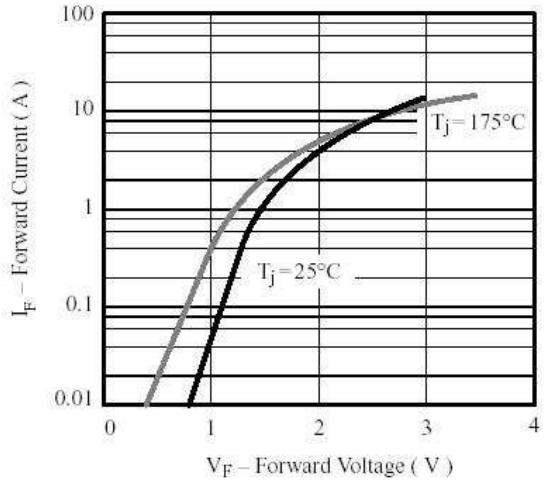


Figure 4. Typ. Diode Capacitance vs. Reverse Voltage