GOOD-ARK
SEMICONDUCTOR

GSBY228

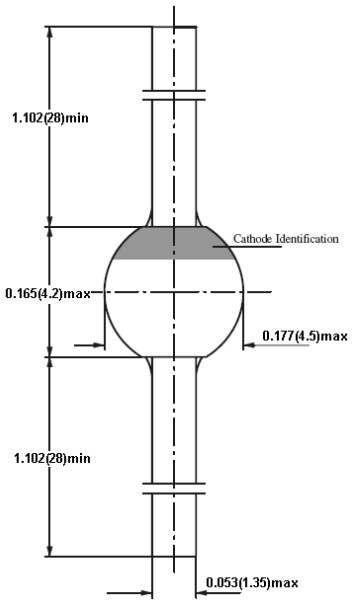
Sintered Glass Junction Avalanche Rectifier
Reverse Voltage 1500V Forward Current 2.5A

Features

- Glass passivated
- High maximum operating temperature
- Low leakage current
- Excellent stability

Mechanical Data

- Case: SOD-64 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-64

Maximum Ratings and Electrical Characteristics

(T_A = 25 °C unless otherwise noted)

Description	Symbol	GSBY228	Unit
Maximun Non-Repetitive Peak Reverse Voltage	V_{RSM}	1650	V
Maximun Repetitive Peak Reverse Voltage	V_{RRM}	1650	V
Maximum Continuous Reverse Voltage	V_R	1500	V
Maximum RMS Voltage	V_{RMS}	1050	V
Maximum DC Blocking Voltage	V_{DC}	1500	V
Maximum Average Forward Rectified Current 0.375″(9.5mm) lead length @Ta =50°C	$I_{F(AV)}$	2.5	A
Non-Repetitive Peak Forward Surge Current at t=10ms half sinewave	I_{FSM}	50.0	A
Maximum Instantaneous Forward Voltage at 5.0A	V_F	1.50	V
Maximum DC Reverse Current Ta =25°C at rated DC Blocking Voltage Ta =150°C	I_R	5.0 150.0	μA
Typical Reverse Recovery Time (Note 1)	T_{rr}	1000	nS
Typical Thermal Resistance (Note 2)	Rth(ja)	75.0	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. Device mounted on an epoxy-glass printed-circuit board, 1.5mm thick

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Ratings and Characteristics Curves

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FIG. 1 - FORWARD CURRENT DERATING CURVE

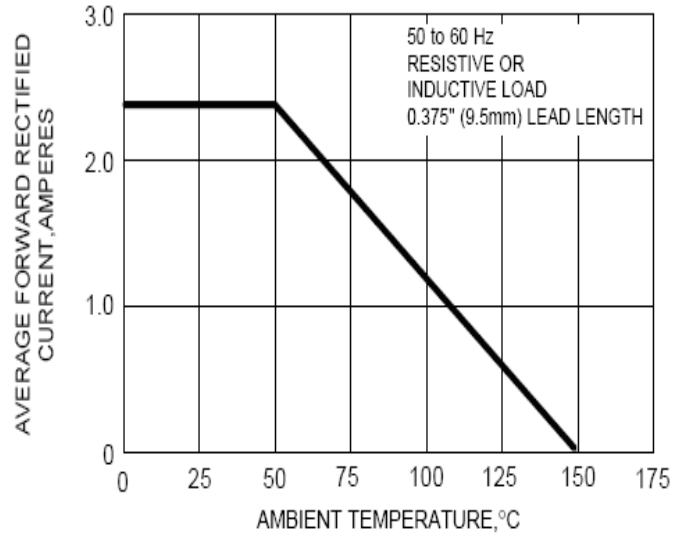


FIG. 2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

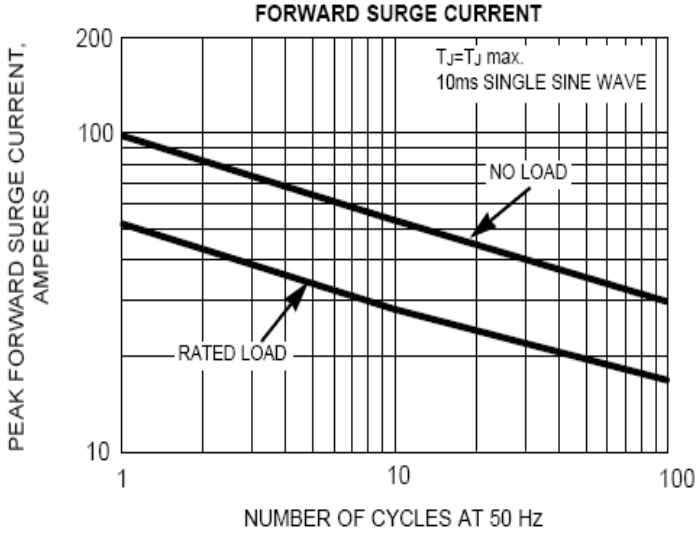


FIG. 3 -MAXIMUM PEAK REPETITIVE FORWARD SURGE CURRENT

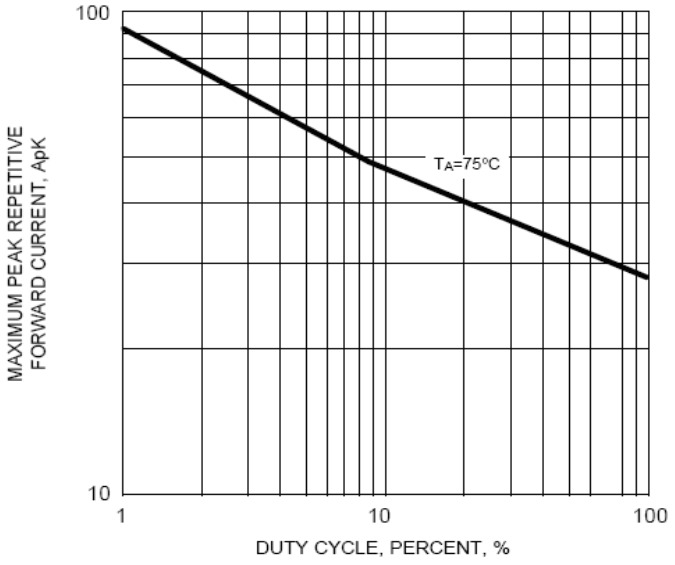
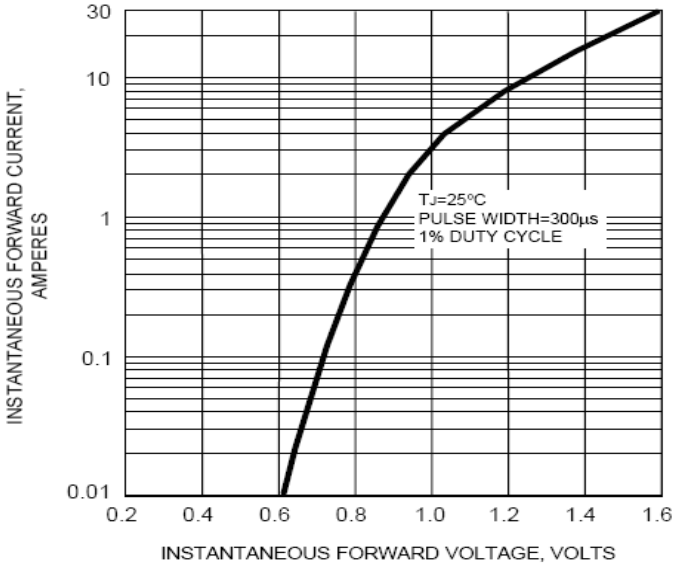


FIG. 4 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS



Ratings and Characteristics Curves

(T_A = 25°C unless otherwise noted)

FIG. 5 - TYPICAL REVERSE CHARACTERISTICS

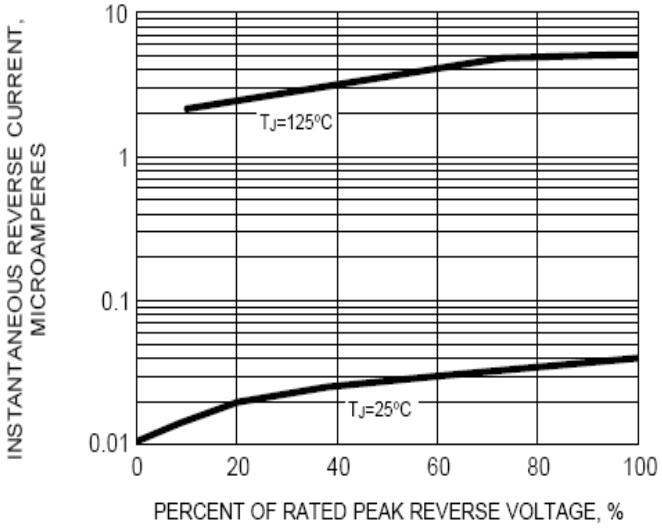


FIG. 6 - TYPICAL JUNCTION CAPACITANCE