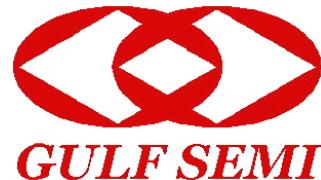


SBYG10D THRU SBYG10Y

SINTERED GLASS JUNCTION SURFACE MOUNTED RECTIFIER

VOLTAGE: 200 to 1600V

CURRENT: 1.5A



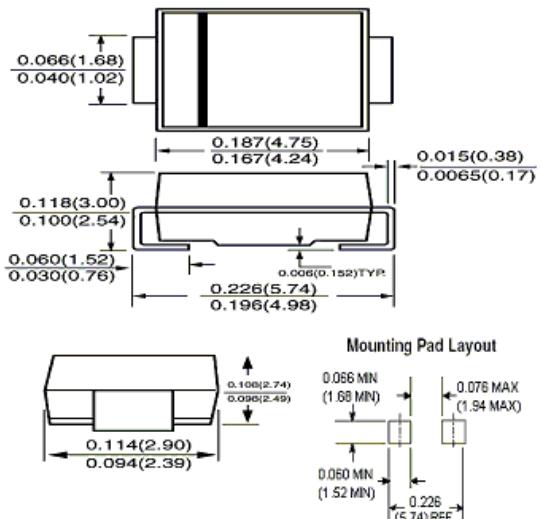
FEATURE

For surface mounted application
High surge current capability
Sintered glass junction
High temperature soldering guaranteed
260°C/10sec/at terminals

MECHANICAL DATA

Terminal: Plated Terminal, solderable per
MIL-STD 202E, method 208C
Case: Molded with UL-94 class V-0 recognized
Flame Retardant Epoxy
Polarity: color band denotes cathode end
Marking: **B10D B10G B10J B10K B10M B10Y**

GF1/ DO-214BA



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	SBYG 10D	SBYG 10G	SBYG 10J	SBYG 10K	SBYG 10M	SBYG 10Y	units
Maximum Recurrent Peak Reverse Voltage	Vrrm	200	400	600	800	1000	1600	V
Maximum RMS Voltage	Vrms	140	280	420	560	700	1120	V
Maximum DC blocking Voltage	Vdc	200	400	600	800	1000	1600	V
Maximum Average Forward Rectified Current	If(av)	1.5						A
Peak Forward Surge Current 10ms single half sine-wave superimposed on rated load	Ifsm	30						A
Maximum Forward Voltage at rated Forward current Ta =25°C	Vf	1.15						V
Pulse energy in avalanche mode, non repetitive (inductive load switch off) at I _{(BR)R} =1A	Er	20						mJ
Maximum DC Reverse Current Ta =25°C Ta =125°C	Ir	1.0 50.0						µA
Typical Thermal Resistance (Note 1)	Rth(ja) Rth(jl)	80 26						°C/W
Operating and Storage Temperature Range	Tj, Tstg	-65 to +175						°C

Note:

- Thermal resistance from junction to ambient and from junction to lead P.C.B. mounted on 0.2×0.2"(5.0×5.0mm) copper pad areas

RATINGS AND CHARACTERISTIC CURVES SBYG10J THRU SBYG10Y

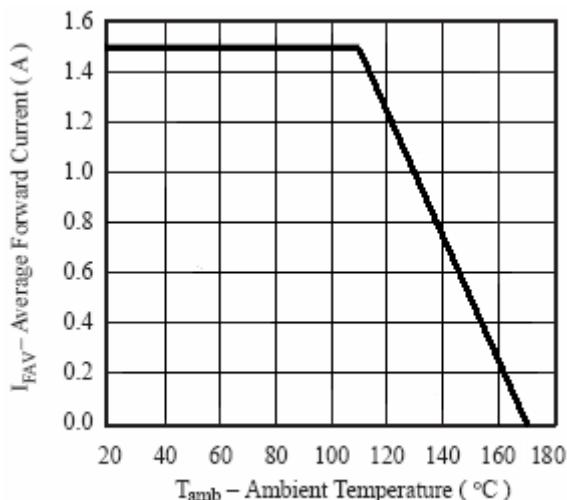


Figure 1. Max. Average Forward Current

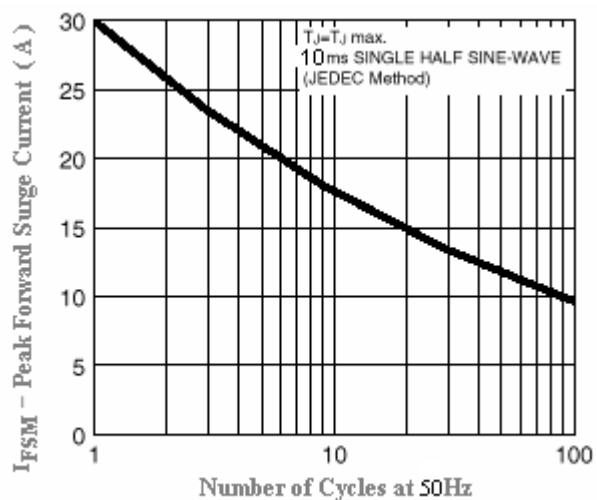


Figure 2. Max. Non-Repetitive Peak Forward Surge Current

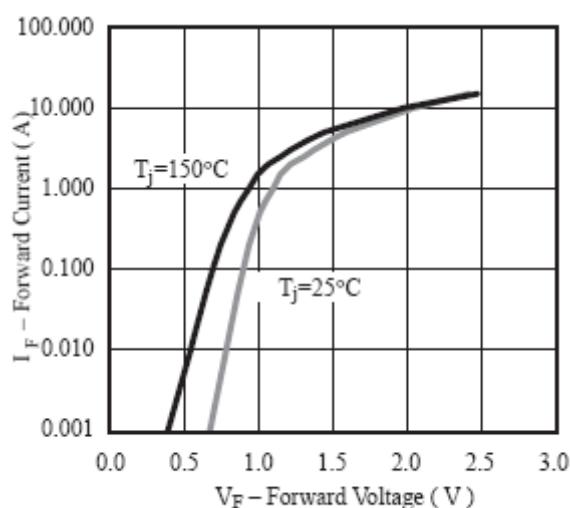


Figure 3. Forward Current

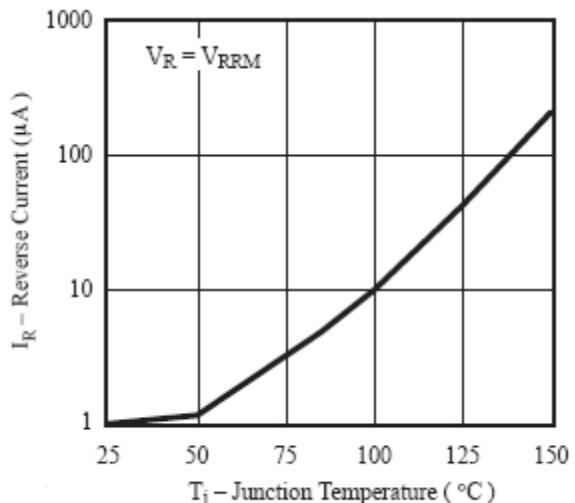


Figure 4. Reverse Current

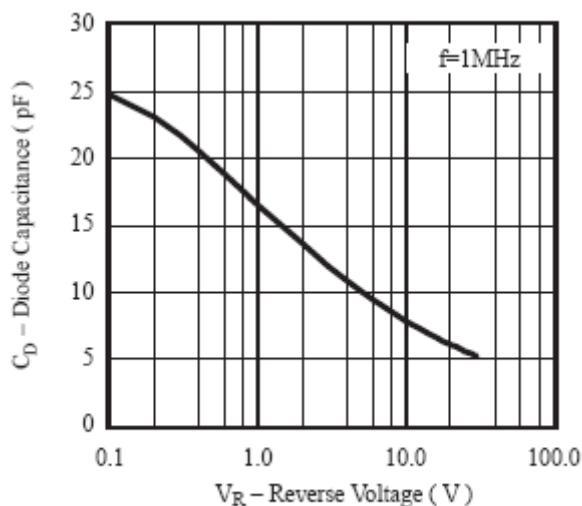


Figure 5. Diode Capacitance