SBYG10DG THRU SBYG10MG

SURFACE MOUNT FAST SWITCHING RECTIFIER

VOLTAGE：200V to 1000V **CURRENT： 1.5A**

GULF SEMI

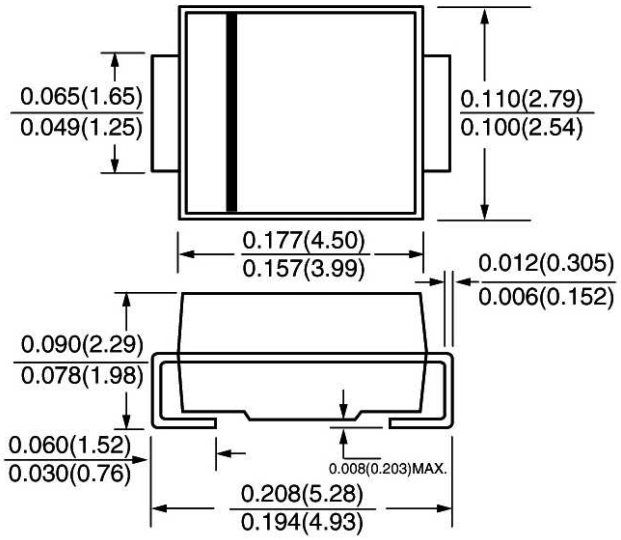
FEATURE

For surface mounted application
High surge current capability
Glass passivated chip
High temperature soldering guaranteed
260℃/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: **G10D G10G G10J G10K G10M**

SMA / DO-214AC



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

	Symbol	SBYG10 DG	SBYG10 GG	SBYG10 JG	SBYG10 KG	SBYG10 MG	units
Maximum Recurrent Peak Reverse Voltage	Vrrm	200	400	600	800	1000	V
Maximum RMS Voltage	Vrms	140	280	420	560	700	V
Maximum DC blocking Voltage	Vdc	200	400	600	800	1000	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℃	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℃ at rated DC blocking voltage Ta =125℃	Ir	1.0 40.0					μA
Typical Thermal Resistance (Note 1) (Note 2)	Rth(jl) Rth(ja)	25 150					K/W
Operating and Storage Temperature Range	Tj, Tstg	-50 to +150					℃

Note：
1. T_L=const
2. mounted on epoxy-glass hard tissue

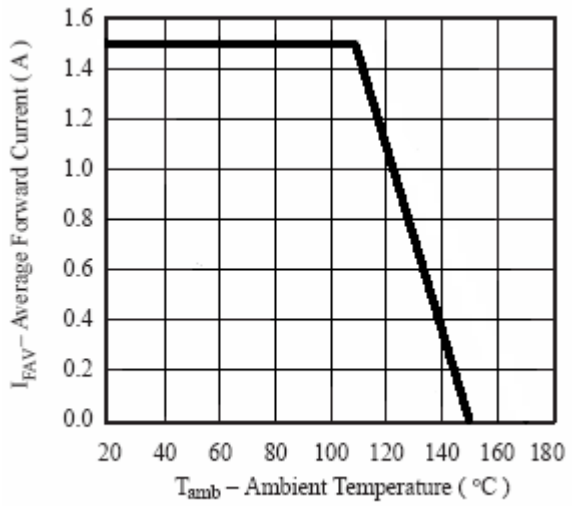


Figure 1. Max. Average Forward Current

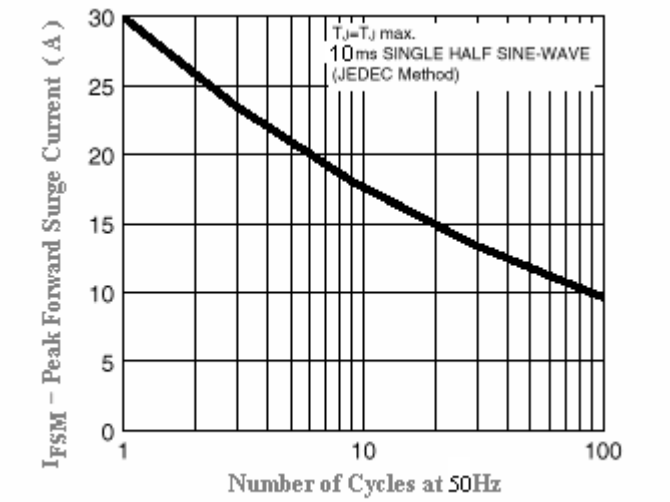


Figure 2. Max. Non-Repetitive Peak Forward Surge Current

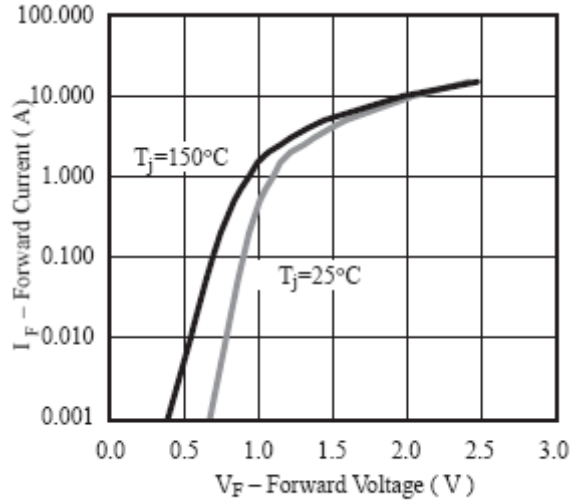


Figure 3. Forward Current

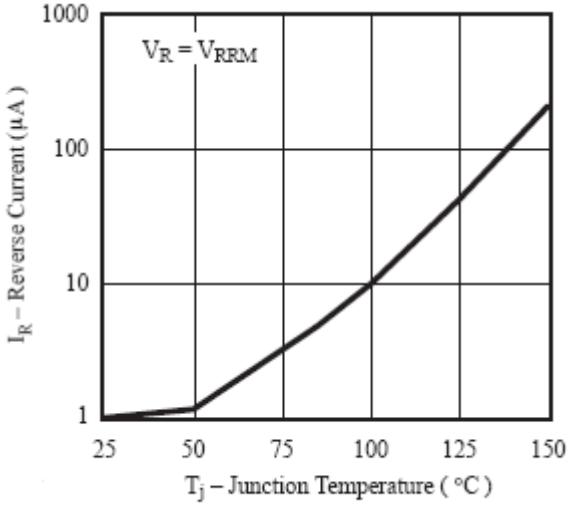


Figure 4. Reverse Current

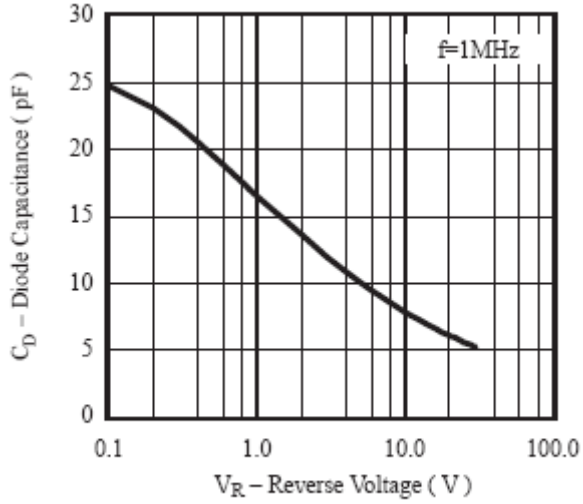


Figure 5. Diode Capacitance