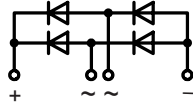
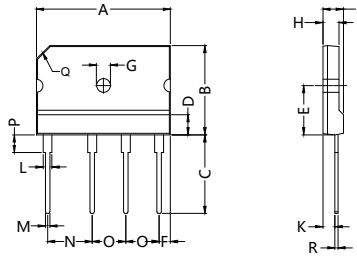


GBJ2005 thru GBJ2012

Single Phase Bridge Rectifiers



Dimensions GBJ



Dim.	Millimeter		Dim.	Millimeter	
	Min.	Max.		Min.	Max.
A	29.70	30.30	K	2.50	2.90
B	19.70	20.30	L	2.00	2.40
C	17.0	18.0	M	0.90	1.10
D	4.70	4.90	N	9.80	10.20
E	10.80	11.20	O	7.30	7.70
F	2.30	2.70	P	3.80	4.20
ØG	Ø3.00	Ø3.4	Q	-	C3
H	3.40	3.80	R	0.80	1.00
J	4.40	4.80			

	VRRM V	VRMS V	VDC V
GBJ2005	50	35	50
GBJ2001	100	70	100
GBJ2002	200	140	200
GBJ2004	400	280	400
GBJ2006	600	420	600
GBJ2008	800	560	800
GBJ2010	1000	700	1000
GBJ2012	1200	840	1200



Symbol	Characteristics	Maximum Ratings	Unit
I_{AV}	Maximum Average Forward (With Heatsink Note 2) Rectified Current @Tc=100°C (Without Heatsink)	20.0 3.6	A
I_{FSM}	Peak Forward Surge Current 8.3ms Single Half-Sine-Wave Superimposed On Rated Load (JEDEC METHOD)	240	A
V_F	Maximum Forward Voltage At 10.0A DC	1.05	V
I_R	Maximum DC Reverse Current @Tj=25°C At Rated DC Blocking Voltage @Tj=125°C	10 500	uA
I^2t	I^2t Rating For Fusing (t < 8.3 ms)	240	A ² S
C_J	Typical Junction Capacitance Per Element (Note 1)	60	pF
$R_{\theta JC}$	Typical Thermal Resistance (Note 2)	0.8	°C/W
T_J	Operating Temperature Range	-55 to +150	°C
T_{STG}	Storage Temperature Range	-55 to +150	°C

NOTES: 1. Measured At 1.0MHz And Applied Reverse Voltage Of 4.0V DC.
2. Device Mounted On 300mm x 300mm x 1.6mm Cu Plate Heatsink.

FEATURES

- * Rating to 1200V PRV
- * Ideal for printed circuit board
- * Low forward voltage drop, high current capability
- * Reliable low cost construction utilizing molded plastic technique results in inexpensive product
- * UL File E310749

MECHANICAL DATA

- * Polarity: Symbols molded on body
- * Weight: 7 grams
- * Mounting position: Any

GBJ2005 thru GBJ2012

Single Phase Bridge Rectifiers

FIG.1 - FORWARD CURRENT DERATING CURVE

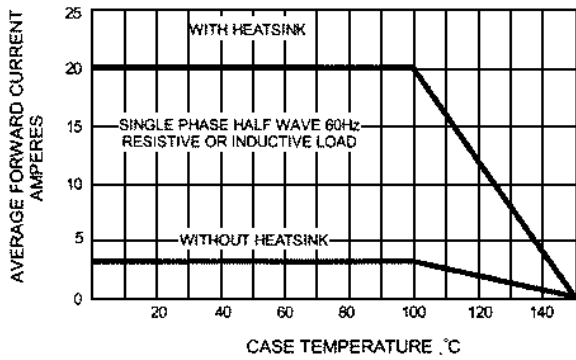


FIG.2 - MAXIMUM NON-REPETITIVE SURGE CURRENT

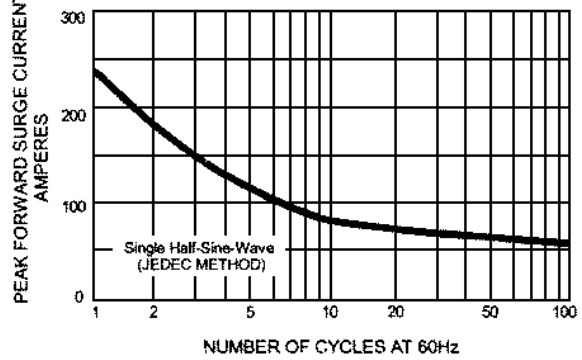


FIG.3 - TYPICAL JUNCTION CAPACITANCE

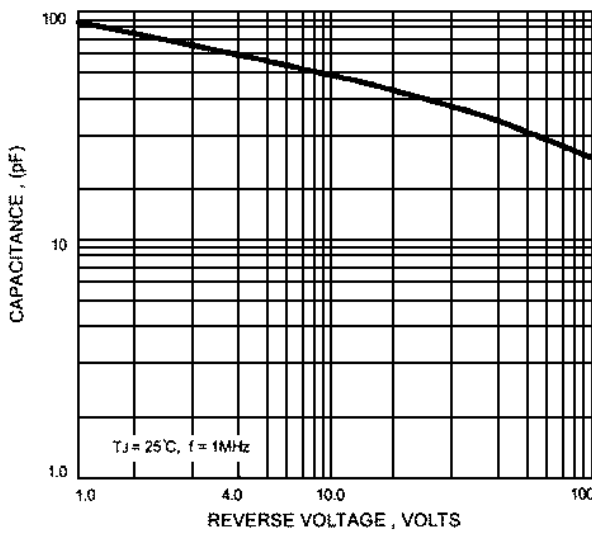


FIG.4 - TYPICAL FORWARD CHARACTERISTICS

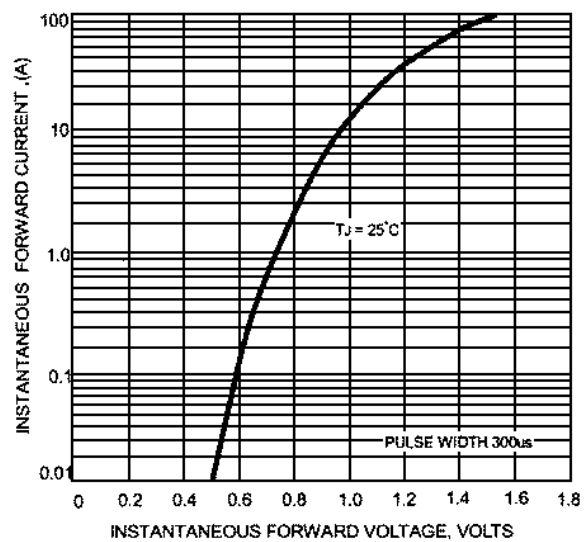


FIG.5 - TYPICAL REVERSE CHARACTERISTICS

