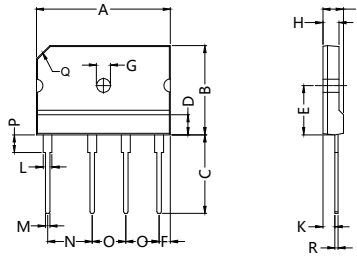


GBJ25005 thru GBJ251*

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	VRWS V	VDC V
GBJ25005	50	35	50
GBJ2502	200	140	200
GBJ2504	400	280	400
GBJ2506	600	420	600
GBJ2508	800	560	800
GBJ2512	1200	840	1200
GBJ2516	1600	1120	1600



Symbol	Characteristics	Maximum Ratings	Unit
I_{AV}	Maximum Average Forward (With Heatsink Note 2) Rectified Current @Tc=100°C (Without Heatsink)	25.0 4.2	A
I_{FSM}	Peak Forward Surge Current 8.3ms Single Half-Sine-Wave Superimposed On Rated Load (JEDEC METHOD)	350	A
V_F	Maximum Forward Voltage At 12.5A 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)	510	A ² S
C_J	Typical Junction Capacitance Per Element (Note 1)	85	pF
$R_{\theta JC}$	Typical Thermal Resistance (Note 2)	0.6	°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 1600V 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
- * RoHS compliance
- * UL File E310749

MECHANICAL DATA

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

GBJ25005 thru GBJ251*

Single Phase Bridge Rectifiers

FIG.1 - FORWARD CURRENT DERATING CURVE

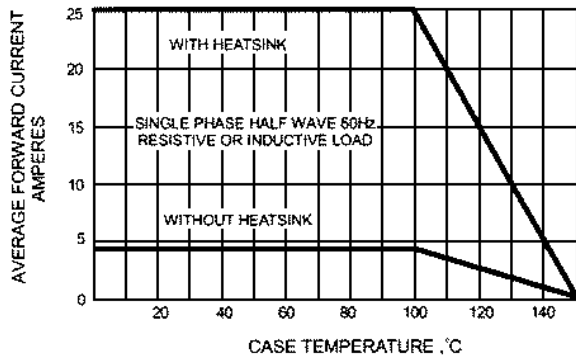


FIG.2 - MAXIMUM NON-REPETITIVE SURGE CURRENT

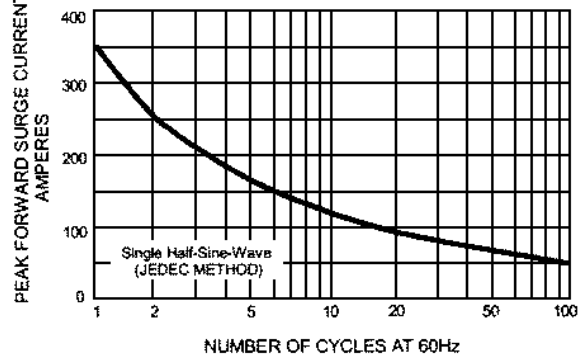


FIG.3 - TYPICAL JUNCTION CAPACITANCE

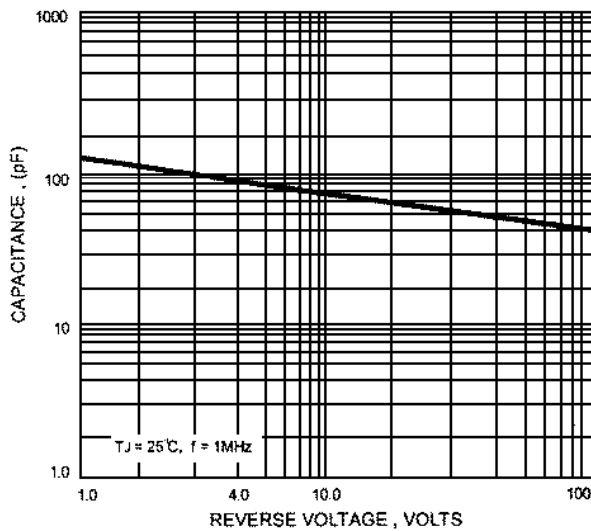


FIG.4 - TYPICAL FORWARD CHARACTERISTICS

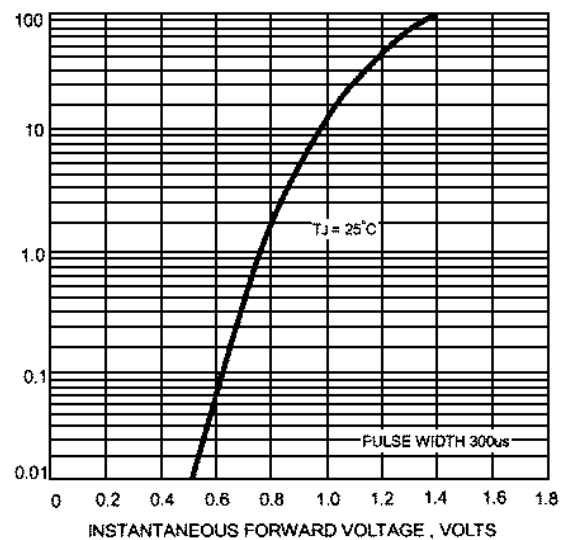


FIG.5 - TYPICAL REVERSE CHARACTERISTICS

