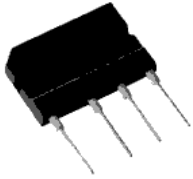
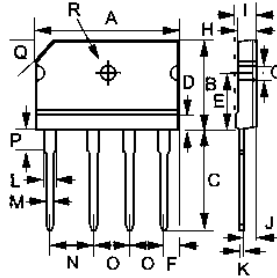


# GBJ2005 thru GBJ2010

## Single Phase Bridge Rectifiers



Dimensions GBJ(RS6M)



GBJ		
DIM.	MIN.	MAX.
A	29.70	30.30
B	19.70	20.30
C	17.0	18.0
D	4.70	4.90
E	10.80	11.20
F	2.30	2.70
G	3.10	3.40
H	3.40	3.80
I	4.40	4.80
J	2.50	2.90
K	0.60	0.80
L	2.00	2.40
M	0.90	1.10
N	9.80	10.20
O	7.30	7.70
P	3.80	4.20
Q	(3.0) x 45°	
R	3.10 ∅	3.40 ∅

All Dimensions in millimeter

	V <sub>RRM</sub> V	V <sub>RMS</sub> V	V <sub>DC</sub> 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

Symbol	Characteristics	Maximum Ratings	Unit
I <sub>AV</sub>	Maximum Average Forward (With Heatsink Note 2) Rectified Current @T <sub>c</sub> =100°C (Without Heatsink)	20.0 3.6	A
I <sub>FSM</sub>	Peak Forward Surge Current 8.3ms Single Half-Sine-Wave Superimposed On Rated Load (JEDEC METHOD)	240	A
V <sub>F</sub>	Maximum Forward Voltage At 10.0A DC	1.05	V
I <sub>R</sub>	Maximum DC Reverse Current @T <sub>J</sub> =25°C At Rated DC Blocking Voltage @T <sub>J</sub> =125°C	10 500	uA
I <sup>2</sup> t	I <sup>2</sup> t Rating For Fusing (t < 8.3 ms)	240	A <sup>2</sup> S
C <sub>J</sub>	Typical Junction Capacitance Per Element (Note 1)	60	pF
R <sub>θJC</sub>	Typical Thermal Resistance (Note 2)	0.8	°C/W
T <sub>J</sub>	Operating Temperature Range	-55 to +150	°C
T <sub>STG</sub>	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 1000V 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

### MECHANICAL DATA

- \* Polarity: Symbols molded on body
- \* Weight: 0.23 ounces, 6.6 grams
- \* Mounting position: Any

# GBJ2005 thru GBJ2010

## Single Phase Bridge Rectifiers

