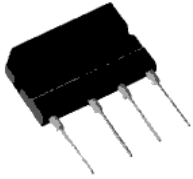
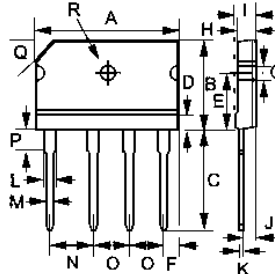


GBJ10005 thru GBJ1010

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 \varnothing	3.40 \varnothing

All Dimensions in millimeter

	V_{RRM}	V_{RMS}	V_{DC}
	V	V	V
GBJ10005	50	35	50
GBJ1001	100	70	100
GBJ1002	200	140	200
GBJ1004	400	280	400
GBJ1006	600	420	600
GBJ1008	800	560	800
GBJ1010	1000	700	1000

Symbol	Characteristics	Maximum Ratings	Unit
I_{AV}	Maximum Average Forward (With Heatsink Note 2) Rectified Current @ $T_c=110^\circ\text{C}$ (Without Heatsink)	10.0 3.0	A
I_{FSM}	Peak Forward Surge Current 8.3ms Single Half-Sine-Wave Superimposed On Rated Load (JEDEC METHOD)	170	A
V_F	Maximum Forward Voltage At 5.0A DC	1.05	V
I_R	Maximum DC Reverse Current @ $T_J=25^\circ\text{C}$ At Rated DC Blocking Voltage @ $T_J=125^\circ\text{C}$	10 500	μA
I^2t	I^2t Rating For Fusing ($t < 8.3$ ms)	120	A^2S
C_J	Typical Junction Capacitance Per Element (Note 1)	55	pF
$R_{\theta JC}$	Typical Thermal Resistance (Note 2)	1.4	$^\circ\text{C}/\text{W}$
T_J	Operating Temperature Range	-55 to +150	$^\circ\text{C}$
T_{STG}	Storage Temperature Range	-55 to +150	$^\circ\text{C}$

NOTES: 1. Measured At 1.0MHz And Applied Reverse Voltage Of 4.0V DC.
2. Device Mounted On 150mm x 150mm 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

GBJ1005 thru GBJ1010

Single Phase Bridge Rectifiers

