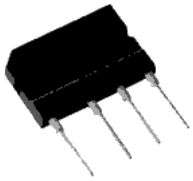
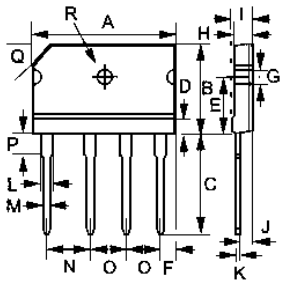
GBJ8005 thru GBJ810

Single Phase Bridge Rectifiers



	V_{RRM} V	V_{RMS} V	V_{DC} V
GBJ8005	50	35	50
GBJ801	100	70	100
GBJ802	200	140	200
GBJ804	400	280	400
GBJ806	600	420	600
GBJ808	800	560	800
GBJ810	1000	700	1000

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		

Symbol	Characteristics	Maximum Ratings	Unit
$I_{(AV)}$	Maximum Average Forward (With Heatsink Note 2) Rectified Current @T_C=110°C (Without Heatsink)	8.0 2.9	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 4.0A DC	1.0	V
I_R	Maximum DC Reverse Current @T_J=25°C At Rated DC Blocking Voltage @T_J=125°C	5.0 500	uA
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)	1.6	°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 100mm x 100mm 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

Sirectifier®

GBJ8005 thru GBJ810

Single Phase Bridge Rectifiers

FIG.1 - FORWARD CURRENT DERATING CURVE

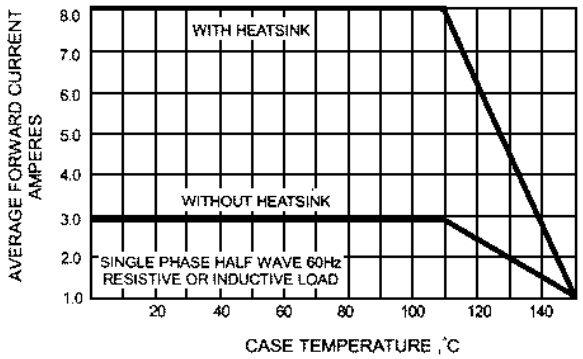


FIG.2 - MAXIMUM NON-REPETITIVE SURGE CURRENT

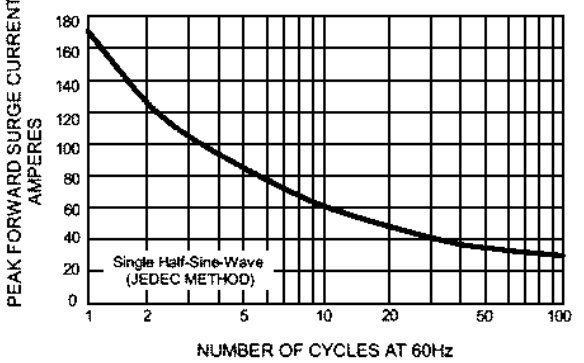


FIG.3 - TYPICAL JUNCTION CAPACITANCE

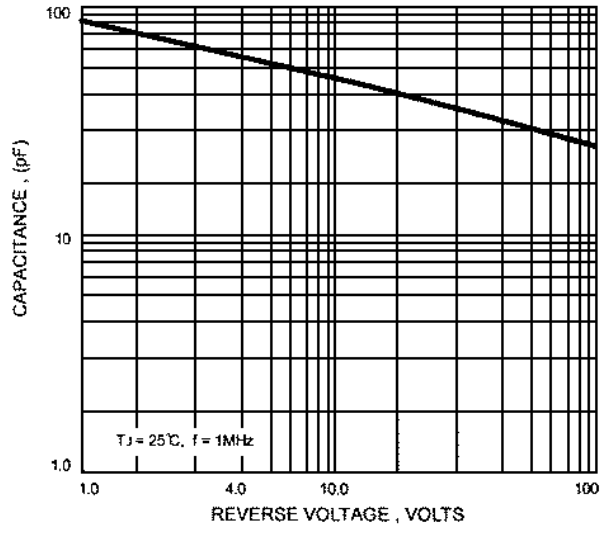


FIG.4 - TYPICAL FORWARD CHARACTERISTICS

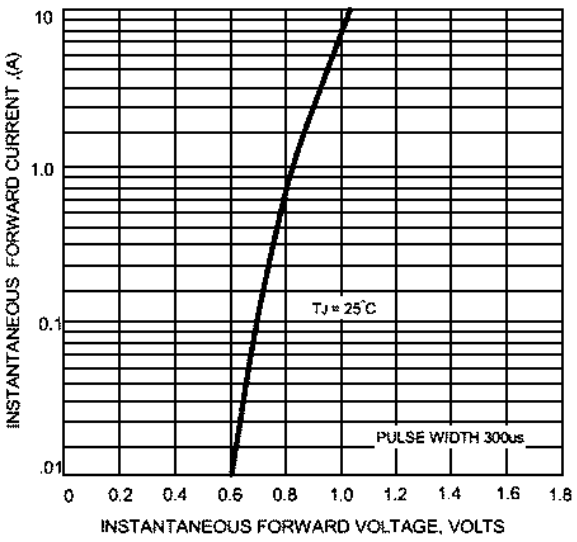
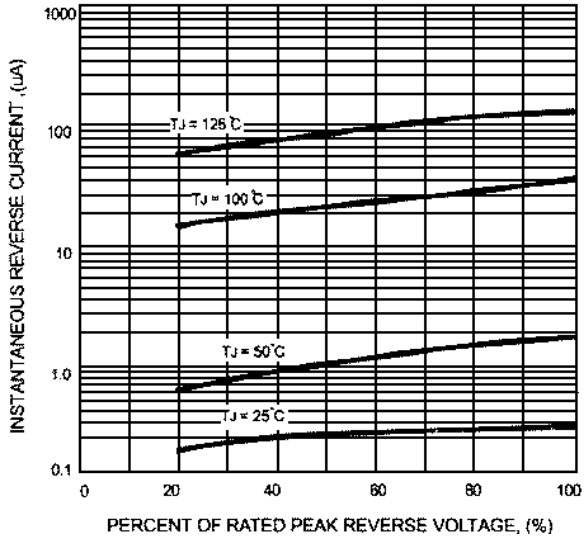


FIG.5 - TYPICAL REVERSE CHARACTERISTICS



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