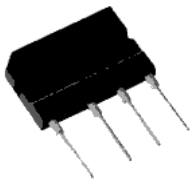
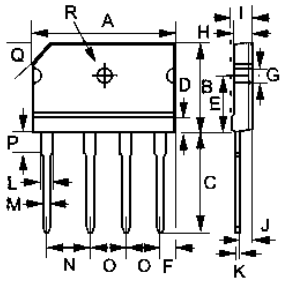
GBJ6005 thru GBJ610

Single Phase Bridge Rectifiers



	V_{RRM} V	V_{RMS} V	V_{DC} V
GBJ6005	50	35	50
GBJ601	100	70	100
GBJ602	200	140	200
GBJ604	400	280	400
GBJ606	600	420	600
GBJ608	800	560	800
GBJ610	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)	6.0 2.8	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 3.0A 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)	1.8	°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 75mm x 75mm 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®

GBJ6005 thru GBJ610

Single Phase Bridge Rectifiers

FIG.1 - FORWARD CURRENT DERATING CURVE

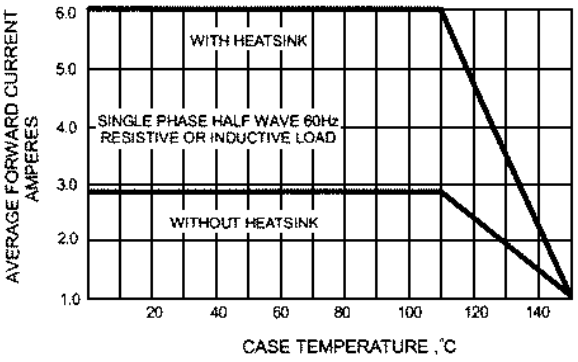


FIG.2 - MAXIMUM NON-REPETITIVE SURGE CURRENT

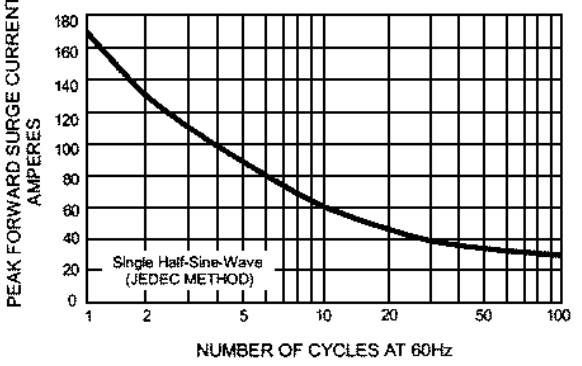


FIG.3 - TYPICAL JUNCTION CAPACITANCE

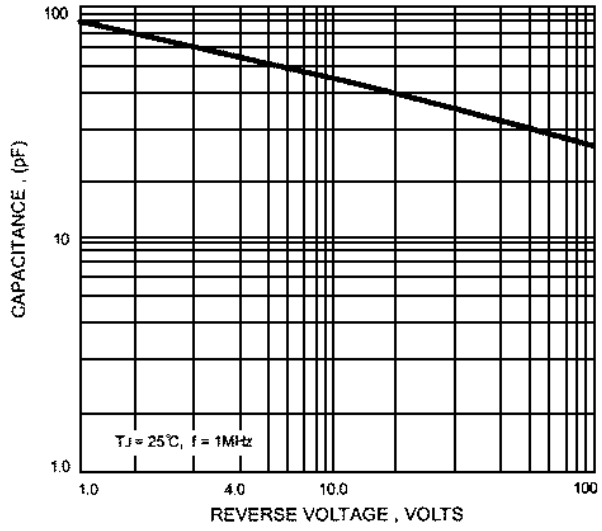


FIG.4 - TYPICAL FORWARD CHARACTERISTICS

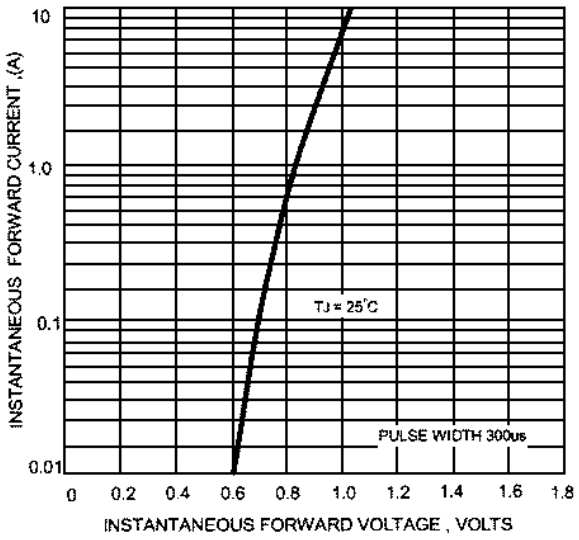
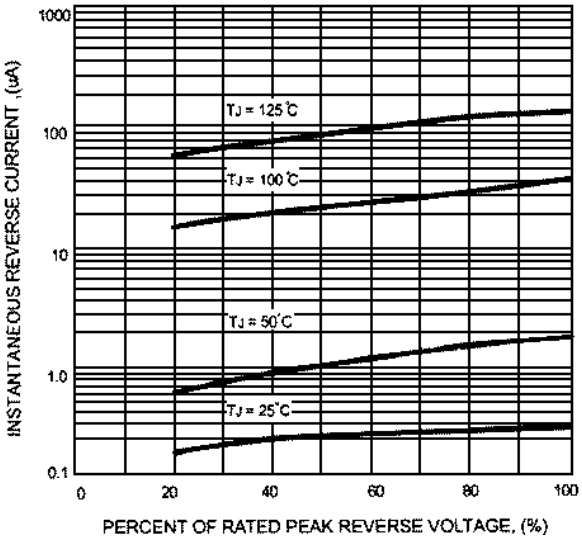


FIG.5 - TYPICAL REVERSE CHARACTERISTICS



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