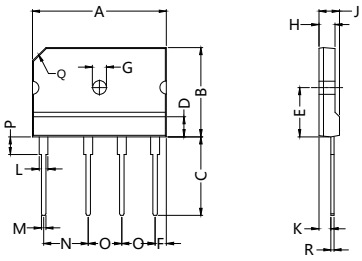
GBJ35005 thru GBJ3516

Single Phase Bridge Rectifiers

	V_{RRM} V	V_{RMS} V	V_{DC} V
GBJ35005	50	35	50
GBJ3501	100	70	100
GBJ3502	200	140	200
GBJ3504	400	280	400
GBJ3506	600	420	600
GBJ3508	800	560	800
GBJ3510	1000	700	1000
GBJ3512	1200	840	1200
GBJ3516	1600	1120	1600

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			

RoHS Compliant

Symbol	Characteristics	Maximum Ratings	Unit
$I_{(AV)}$	Maximum Average Forward (With Heatsink Note 2) Rectified Current @T_C=50°C (Without Heatsink)	35.0 7.0	A
I_{FSM}	Peak Forward Surge Current 8.3ms Single Half-Sine-Wave Superimposed On Rated Load (JEDEC METHOD)	400	A
V_F	Maximum Forward Voltage At 17.5A DC	1.1	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)	660	A^2S
C_J	Typical Junction Capacitance Per Element (Note 1)	150	pF
$R_{\theta JC}$	Typical Thermal Resistance (Note 2)	1.2	°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 compliant

MECHANICAL DATA

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

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GBJ35005 thru GBJ3516

Single Phase Bridge Rectifiers

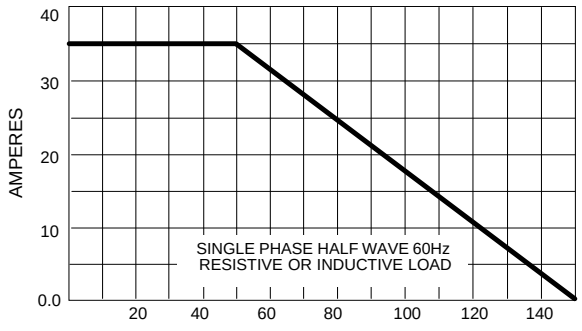

FIG.1 - FORWARD CURRENT DERATING CURVE

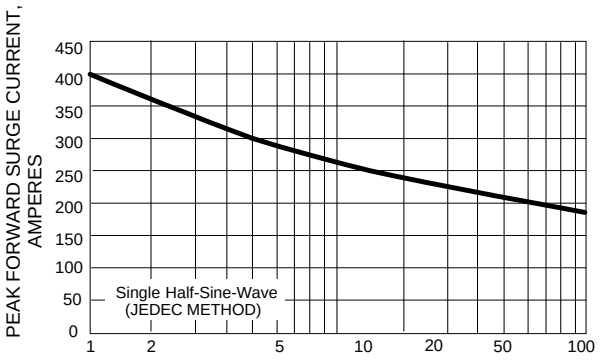

FIG.2 - MAXIMUM NON-REPETITIVE SURGE CURRENT

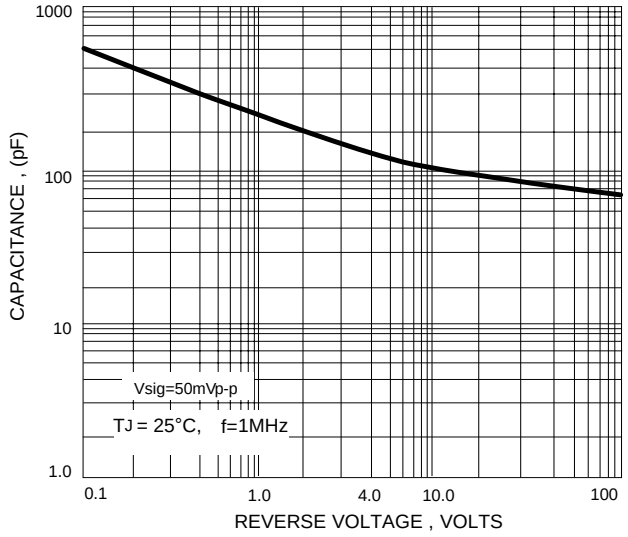

FIG.3 - TYPICAL JUNCTION CAPACITANCE

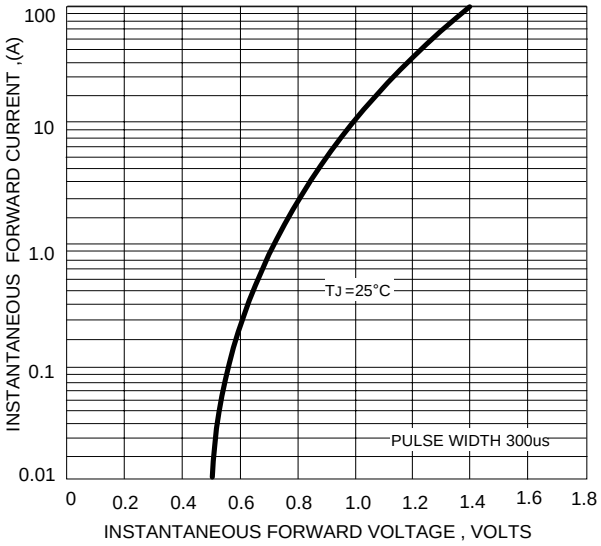

FIG.4 - TYPICAL FORWARD CHARACTERISTICS

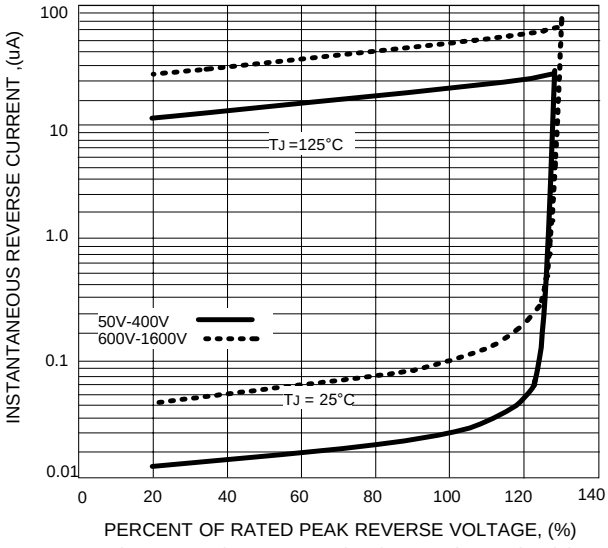

FIG.5 - TYPICAL REVERSE CHARACTERISTICS

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