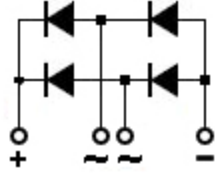
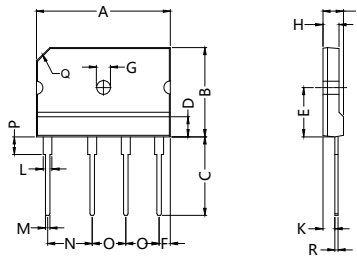


GBJ1512

Single Phase Bridge Rectifiers



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			

	V _{RRM} V	V _{RWS} V	V _{DC} V
GBJ15005	50	35	50
GBJ1502	200	140	200
GBJ1504	400	280	400
GBJ1506	600	420	600
GBJ1508	800	560	800
GBJ1512	1200	840	1200
GBJ1516	1600	1120	1600



Symbol	Characteristics	Maximum Ratings	Unit
I _{AV}	Maximum Average Forward (With Heatsink Note 2) Rectified Current @T _c =100°C (Without Heatsink)	15.0 3.2	A
I _{FSM}	Peak Forward Surge Current 8.3ms Single Half-Sine-Wave Superimposed On Rated Load (JEDEC METHOD)	240	A
PRSM	Per diode chip, T _{vj} = 25°C, t _p = 10 µs	2.4	KW
V _F	Maximum Forward Voltage At 7.5A DC	1.05	V
I _R	Maximum DC Reverse Current @T _J =25°C At Rated DC Blocking Voltage @T _J =125°C	10 500	µA
I ² t	I ² t Rating For Fusing (t < 8.3 ms)	240	A ² S
C _J	Typical Junction Capacitance Per Element (Note 1)	60	pF
R _{θJC}	Typical Thermal Resistance (Note 2)	0.8	°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 300mm x 300mm x 1.6mm Cu Plate Heatsink.
 3. Isolation Voltage > 2500V_{RMS} AC @ 60 sec.

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 compliance
- * UL File E310749
- * Excellent Avalanche Behaviour

MECHANICAL DATA

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

Sirectifier®

GBJ1512

Single Phase Bridge Rectifiers

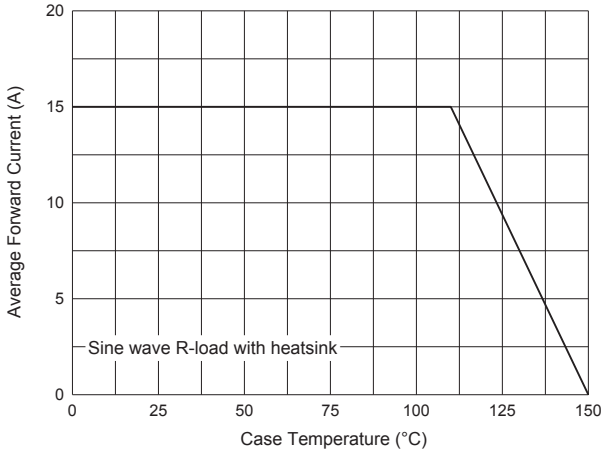


Fig. 1 - Forward Current Derating Curve

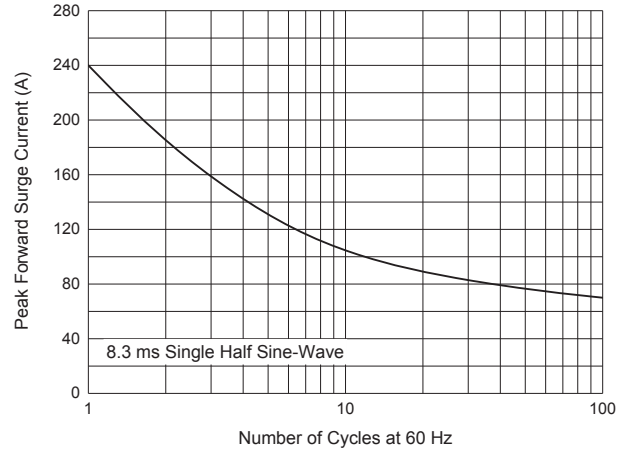


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

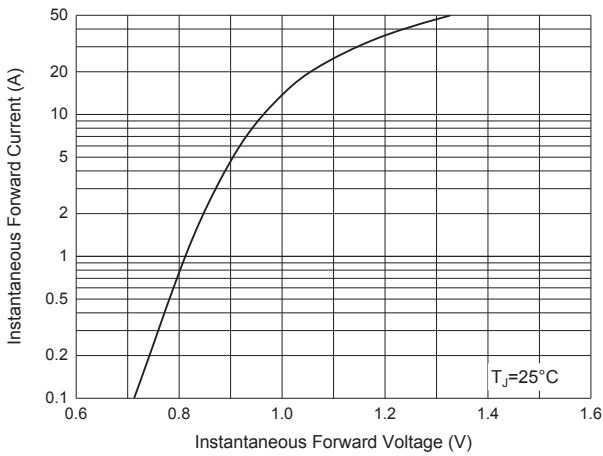


Fig. 3 - Typical Instantaneous Forward Characteristics

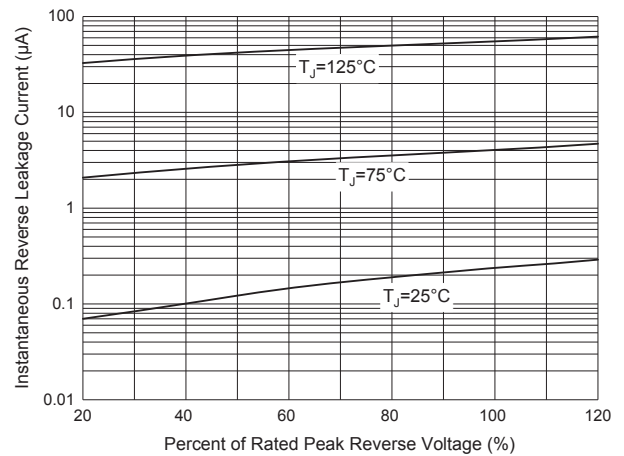


Fig. 4 - Typical Reverse Leakage Characteristics