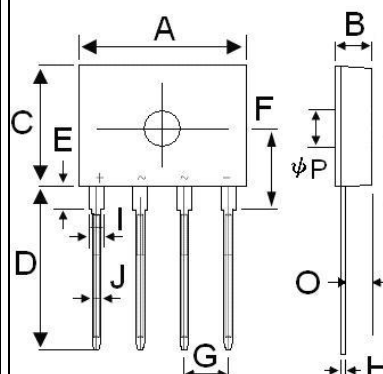


**GLASS PASSIVATED BRIDGE RECTIFIERS**
**REVERSE VOLTAGE – 600 to 1000 Volts**  
**FORWARD CURRENT – 2.0 Ampere**
**FEATURES**

- Rating to 1000V PRV
- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique
- The plastic material has UL flammability classification 94-0
- UL Recognition File#E95060

**MECHANICAL DATA**

- Case Material: “Green” molding compound, UL flammability classification 94V-0, (No Br. Sb. Cl)
- Polarity indicator: As marked on body
- Weight: 1.33 grams

**GBP**


GBP		
Dim.	Min.	Max.
A	14.2	14.7
B	2.9	3.3
C	10.1	10.7
D	13.8	14.4
E	1.8	2.2
F	6.65	7.25
G	3.71	3.91
H	0.4	0.6
I	1.20	1.40
J	0.64	0.84
O	1.8	2.4
P	3.1 $\phi$	3.3 $\phi$

All Dimensions in millimeter

**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

Ratings at 25°C ambient temperature unless otherwise specified.

PARAMETER	SYMBOL	GBP206	GBP208	GBP210	UNIT
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	600	800	1000	V
Maximum RMS Voltage	$V_{RMS}$	420	560	700	V
Maximum DC Blocking Voltage	$V_{DC}$	600	800	1000	V
Maximum Average Forward Rectified Current with Heat-sink @TC=115°C without Heat-sink @TA =25 °C	$I_{(AV)}$	2.0 1.2			A
Peak Forward Surge Current 8.3ms single half sine-wave @ T <sub>J</sub> = 25 °C @ T <sub>J</sub> = 125°C	$I_{FSM}$	75 65			A
Peak Forward Surge Current 1.0ms single half sine-wave @ T <sub>J</sub> = 25 °C @ T <sub>J</sub> = 125°C	$I_{FSM}$	150 130			A
Maximum Forward Voltage at 1.0A DC	$V_F$	1.05			V
Maximum DC Reverse Current at Rated DC Blocking Voltage @ T <sub>J</sub> = 25°C @ T <sub>J</sub> = 125°C	$I_R$	5 500			uA
$I^2 t$ Rating for fusing (t < 8.3ms)	$I^2 t$	16			A <sup>2</sup> S
Typical Junction Capacitance (Note 1)	$C_J$	25			pF
Typical Thermal Capacitance	$R_{\theta JC}$	10			°C/W
Operating and Storage Temperature Range	T <sub>J</sub> , T <sub>STG</sub>	-55 to +150			°C

**Note :**

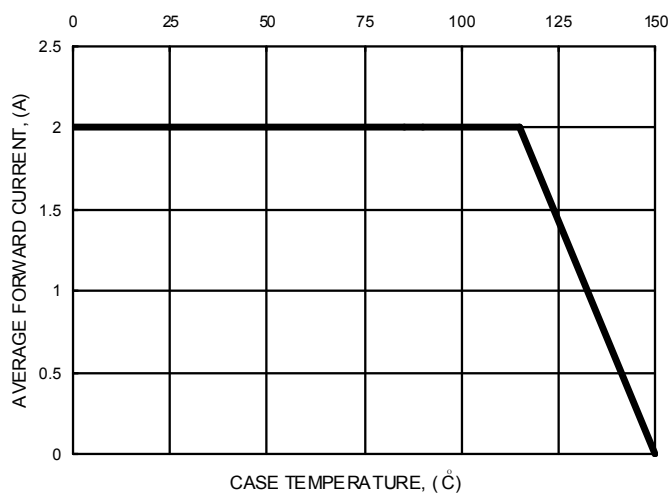
(1) Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

**REV. 5, Feb-2012, KBDG11**

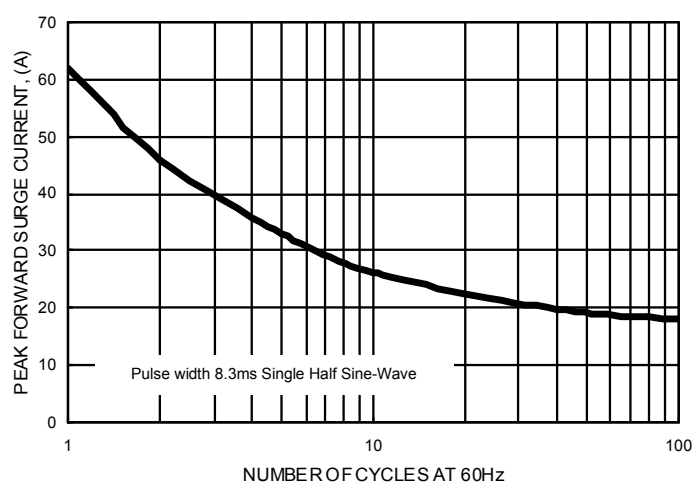
# RATING AND CHARACTERISTIC CURVES GBP206 to GBP210

**LITEON**

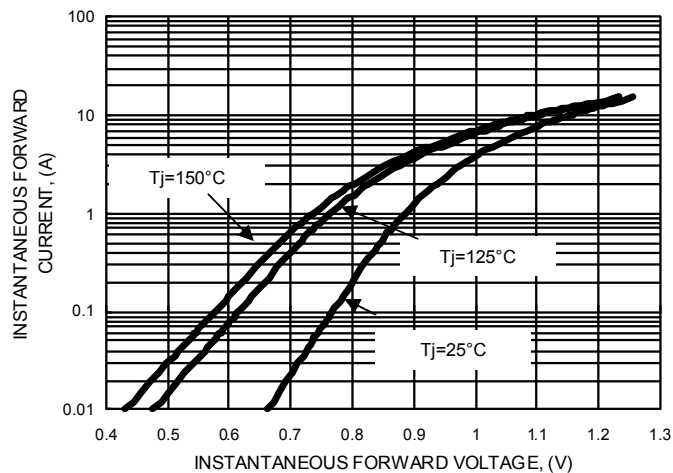
**FIG.1- FORWARD CURRENT DERATING CURVE**



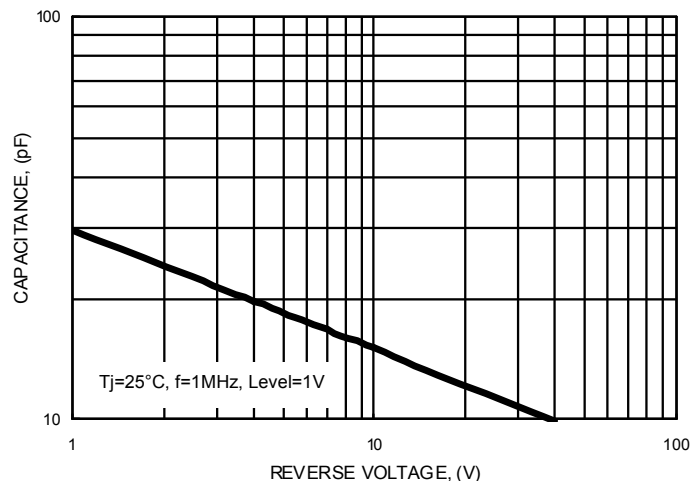
**FIG.2- MAXIMUM NON-REPETITIVE SURGE CURRENT**



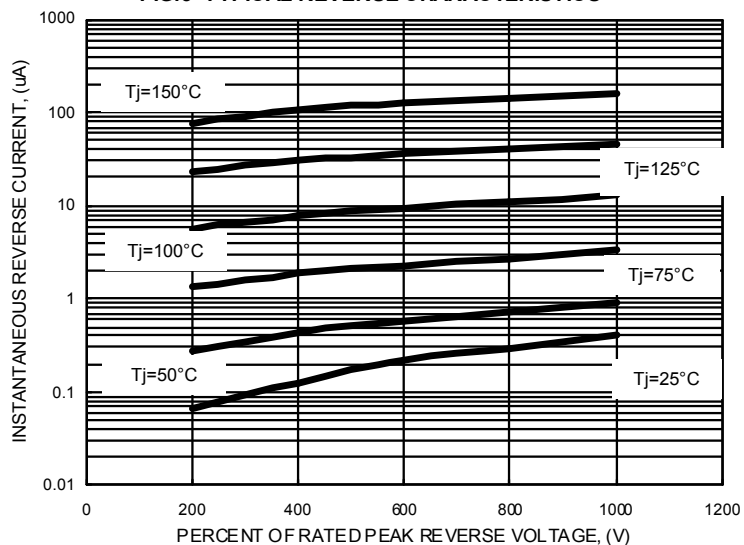
**FIG.3- TYPICAL FORWARD CHARACTERISTICS**



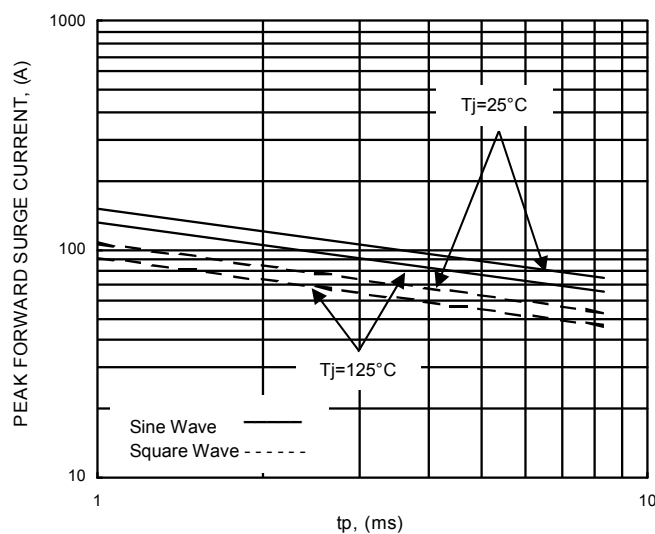
**FIG.4- TYPICAL JUNCTION CAPACITANCE**



**FIG.5- TYPICAL REVERSE CHARACTERISTICS**



**FIG.6- NON-REPETITIVE SURGE CURRENT**



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