

GLASS PASSIVATED BRIDGE RECTIFIERS

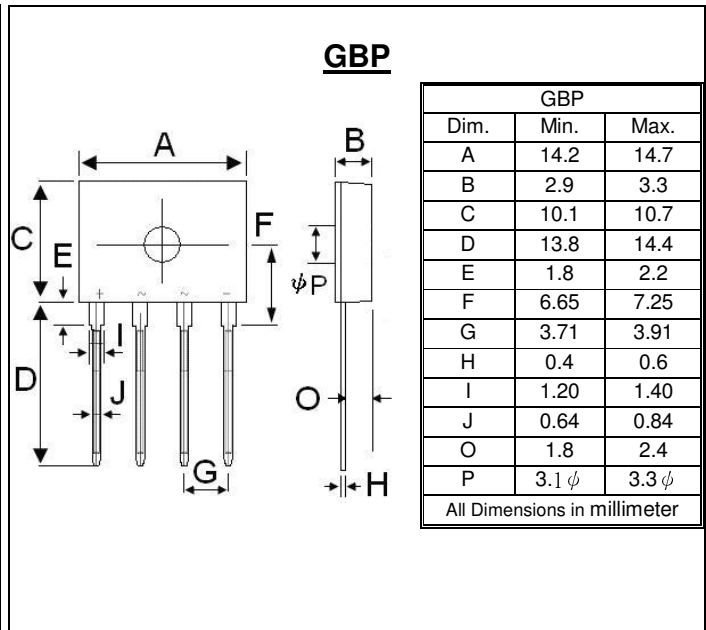
**REVERSE VOLTAGE – 600 to 1000 Volts
FORWARD CURRENT – 2.0 Ampere**

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



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 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 _J = 25 °C @ T _J = 125°C	I_{FSM}		75 65		A
Peak Forward Surge Current 1.0ms single half sine-wave @ T _J = 25 °C @ T _J = 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 _J = 25°C @ T _J = 125°C	I_R		5 500		μA
$I^2 t$ Rating for fusing (t < 8.3ms)	$I^2 t$		16		A ² S
Typical Junction Capacitance (Note 1)	C_J		25		pF
Typical Thermal Resistance (Note 2, 3)	$R_{\theta JC}$		3		°C/W
Typical Thermal Resistance (without heatsink)	$R_{\theta JC}$		10		°C/W
Operating and Storage Temperature Range	T_J, T_{STG}		-55 to +150		°C

Note :

- (1) Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
- (2) Thermal Resistance Junction to Case.
- (3) Device mounted on 50mm x 50mm x 1.6mm Cu Plate Heatsink.

REV. 6, Mar-2014, KBDG11

FIG.1- FORWARD CURRENT DERATING CURVE

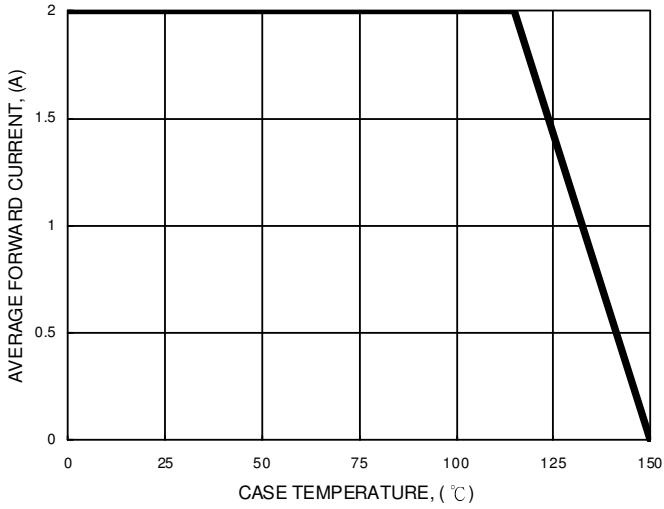


FIG.2- MAXIMUM NON-REPETITIVE SURGE CURRENT

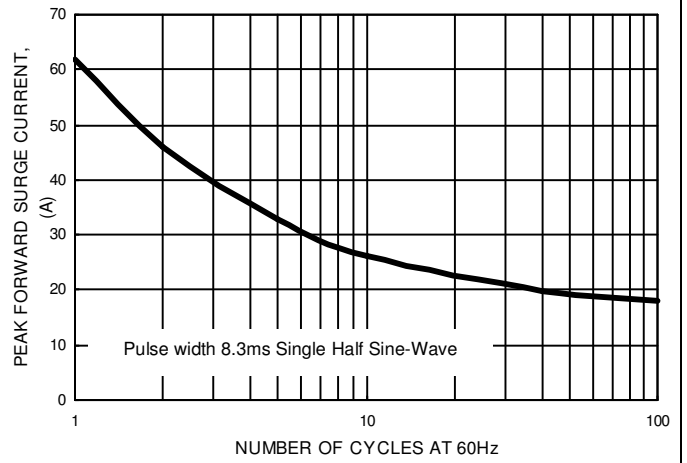


FIG.3- TYPICAL FORDW CHARACTERISTICS

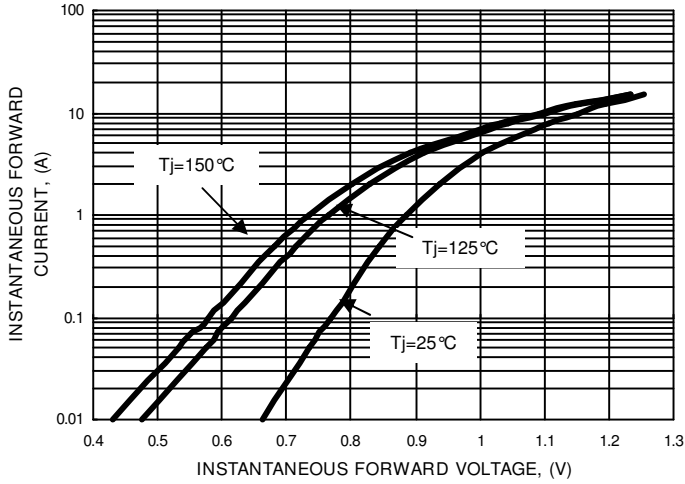


FIG.4- TYPICAL JUNCTION CAPACITANCE

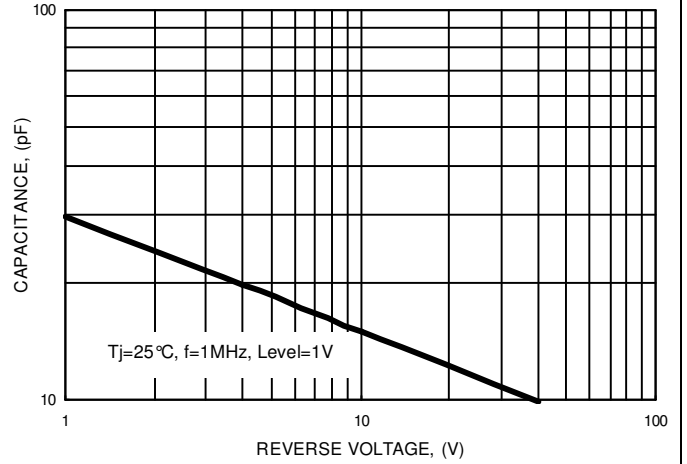


FIG.5- TYPICAL REVERSE CHARACTERISTICS

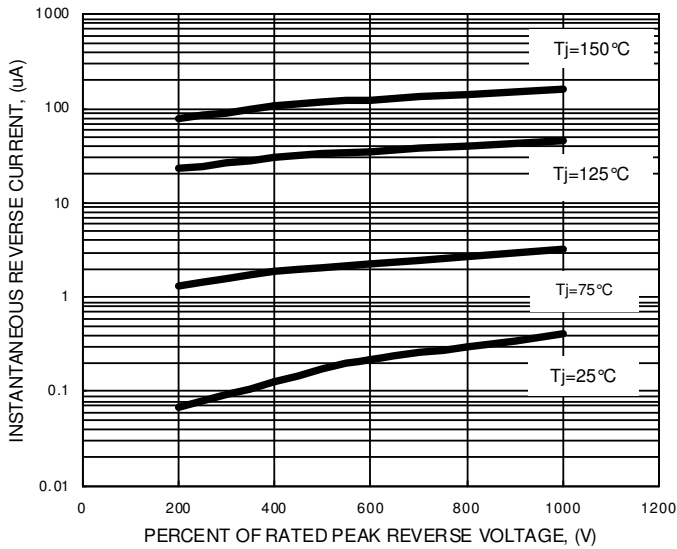
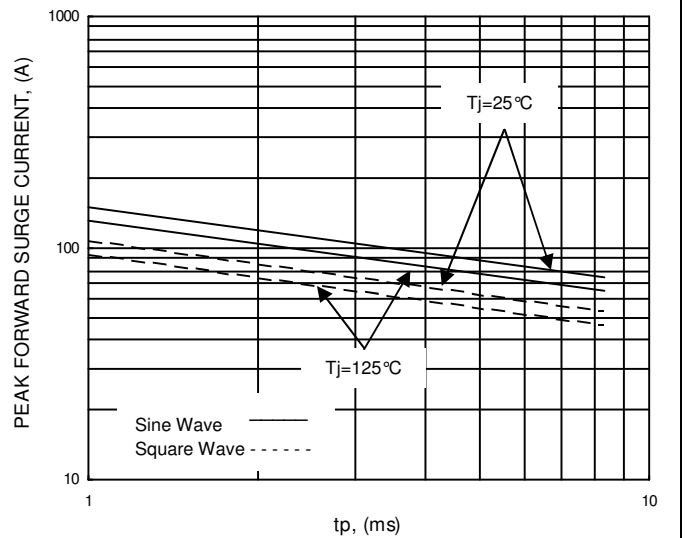


FIG.6 NON-REPETITIVE SURGE CURRENT



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