



## GBP2005G THTU GBP210G

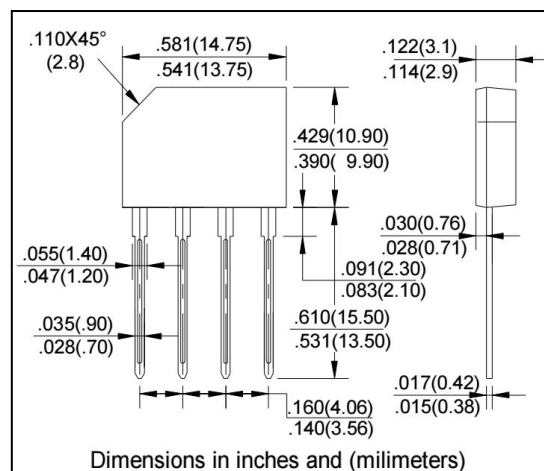
### 2.0A Single-Phase Silicon Bridge Rectifier

#### ●Features

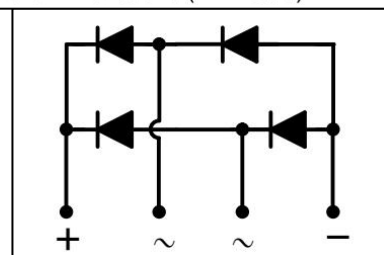
- Glass passivated die construction
- Low forward voltage drop
- High current capability
- High surge current capability
- Plastic material-UL flammability 94V-0

#### ●Mechanical Data

- Package: GBP, molded plastic
- Terminals: plated leads solderable per MIL-STD-202, Method 208
- Polarity: as marked on case
- Mounting position: Any
- Marking: type number



Dimensions in inches and (millimeters)



#### Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.

Single Phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

Symbol	Parameter	GBP 2005G	GBP 201G	GBP 202G	GBP 204G	GBP 206G	GBP 208G	GBP 210G	Unit
$V_{RRM}$	Maximum Repetitive Reverse Voltage	50	100	200	400	600	800	1000	V
$V_{RMS}$	Maximum RMS Reverse Voltage	35	70	140	280	420	560	700	V
$V_{DC}$	Maximum DC Blocking Voltage	50	100	200	400	600	800	1000	V
$I_{F(AV)}$	Average Rectified Output Current (Note 1)@TC=100°C	2.0							A
$I_{FSM}$	Non-Repetitive Peak Forward Surge Current 8.3ms.Single half sine-wave superimposed on rated load(JEDEC Method)	60							A
$I^2t$	$I^2t$ Rating for Fusing ( $t < 8.3ms$ )	14.94							A <sup>2</sup> s
$V_{FM}$	Forward Voltage per element @IF=2.0A	1.05							V
$I_R$	Peak Reverse Current @TA=25°C At Rated DC Blocking Voltage @TA=125°C	5 500							μA
$R_{\theta JA}$	Typical Thermal Resistance per leg (Note 2)	30							°C /W
$R_{\theta JL}$		11							°C /W
$T_J$	Operating Junction Temperature	150							°C
$T_{STG}$	Storage Temperature Range	-55 to +150							°C

Note:1. Mounted on glass epoxy PC board with 1.3mm<sup>2</sup> solder pad.

2. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C..

### Typical Performance Characteristics

Fig. 1 Forward Current Derating Curve

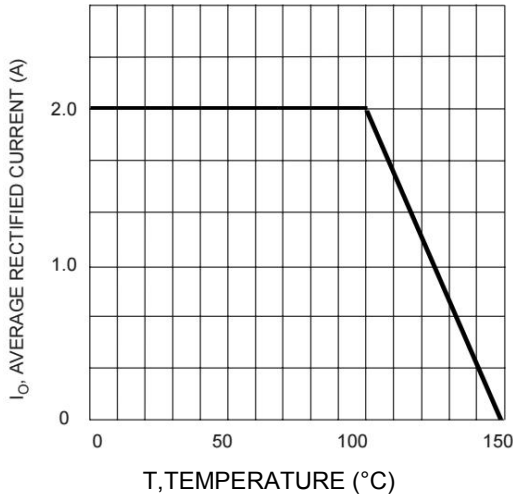


Fig. 2 Typical Fwd Characteristics

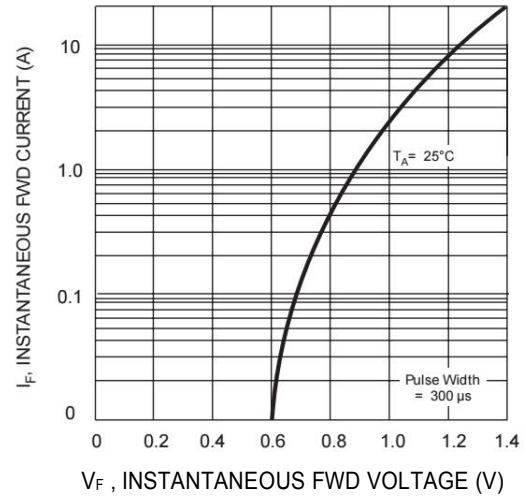


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

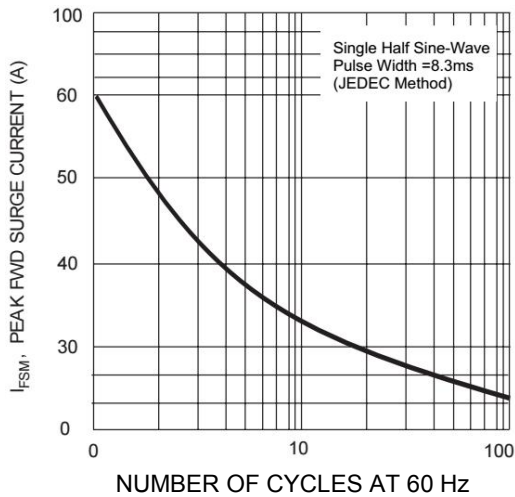


Fig. 4 Typical Junction Capacitance

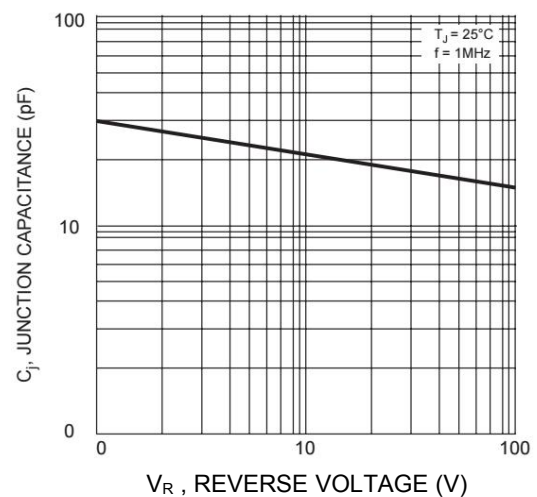


Fig.5 Typical Reverse Characteristics (per element)

