

# RGBP410

## 4.0 Amp Glass Passivated Bridge Rectifiers

### Features

- Glass passivated chip
- Low forward voltage drop
- Ideal for printed circuit board
- High surge current capability
- Meet UL flammability classification 94V-0

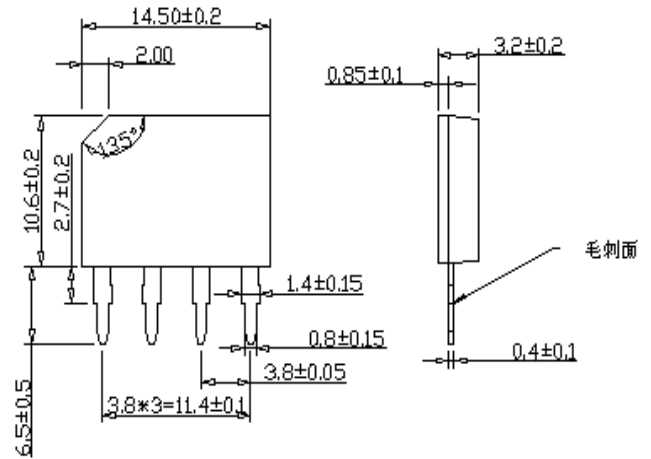
### Mechanical Data

- Polarity: Symbol marked on body
- Mounting position: Any

### Applications

- General purpose use in AC/DC bridge full wave rectification, for SMPS, lighting ballaster, adapter, etc.

### GBP



Package Outline Dimensions in 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%.

Characteristics	Symbol	RGBP410	Unit
Maximum Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	1000	V
Maximum RMS Voltage	V <sub>RMS</sub>	700	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	1000	V
Maximum Average Forward Rectified Current @T <sub>A</sub> =50 °C (Note1)	I <sub>(AV)</sub>	4.0	A
Peak Forward Surge Current, 8.3mS Single Half Sine-Wave, Superimposed on Rated Load (JEDEC Method)	I <sub>FSM</sub>	130	A
I <sup>2</sup> t Rating for Fusing (t<8.3mS)	I <sup>2</sup> t	70.1	A <sup>2</sup> s
Maximum Reverse Recovery Time(Note 2)	T <sub>RR</sub>	500	ns
Peak Forward Voltage per Diode at 4A DC	V <sub>F</sub>	1.3	V
Maximum DC Reverse Current at Rated @T <sub>J</sub> =25 °C	I <sub>R</sub>	10.0	μA
DC Blocking Voltage per Diode @T <sub>J</sub> =100 °C		1.0	mA
Operating Junction Temperature Range	T <sub>J</sub>	-55 to +150	°C
Storage Temperature Range	T <sub>STG</sub>	-55 to +150	°C

Note: 1.Mounting conditions,0.5" lead length maximum.

2.Measured with I<sub>F</sub>=0.5A,I<sub>R</sub>=1A,IRR=0.25A.

## Rating and Characteristic Curves

Fig. 1 - Forward Current Derating Curve

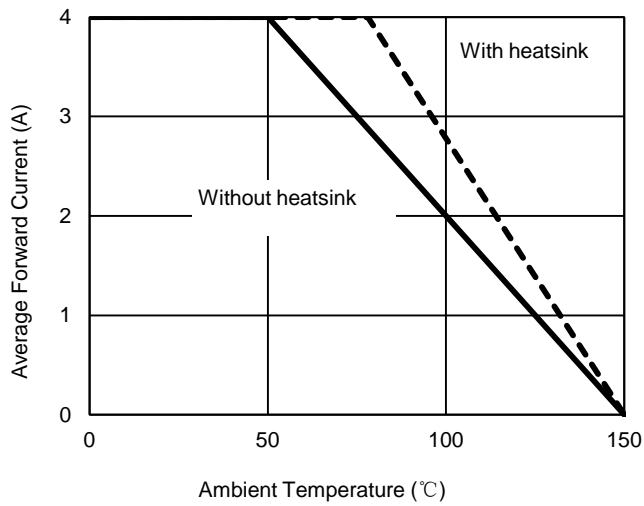


Fig. 2 - Maximum Non-Repetitive Surge Current

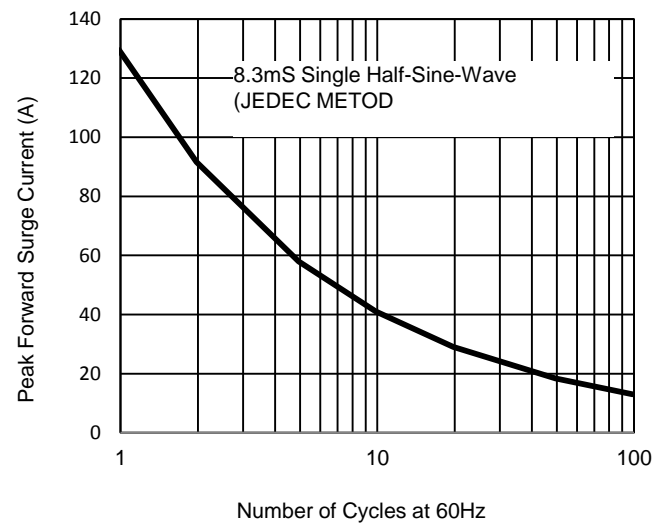


Fig. 3 - Typical Reverse Characteristics

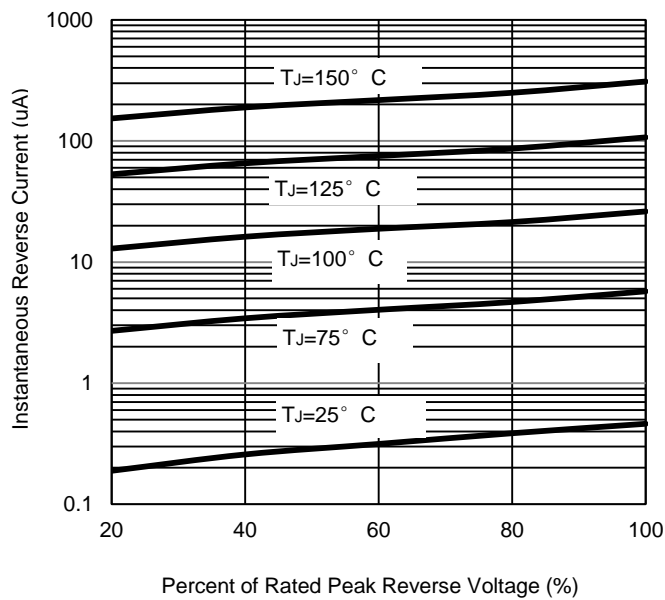


Fig. 4 - Typical Forward Characteristics

