

Features

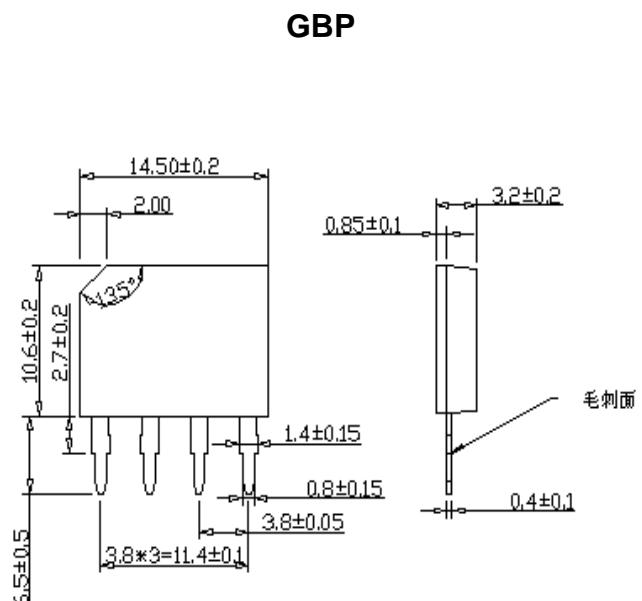
- Glass passivated chip
- Low forward voltage drop
- Ideal for printed circuit board
- High surge current capability
- Meet UL flammability classification 94V-0

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.



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	VR _{RM}	1000	V
Maximum RMS Voltage	V _{RMS}	700	V
Maximum DC Blocking Voltage	V _{DC}	1000	V
Maximum Average Forward Rectified Current @T _A =50 °C (Note1)	I _(AV)	4.0	A
Peak Forward Surge Current, 8.3mS Single Half Sine-Wave, Superimposed on Rated Load (JEDEC Method)	I _{FSM}	130	A
I ² t Rating for Fusing (t<8.3mS)	I ² t	70.1	A ² s
Maximum Reverse Recovery Time(Note 2)	T _{RR}	500	ns
Peak Forward Voltage per Diode at 4A DC	V _F	1.3	V
Maximum DC Reverse Current at Rated @T _J =25°C	I _R	10.0	μA
DC Blocking Voltage per Diode @T _J =100°C		1.0	mA
Operating Junction Temperature Range	T _J	-55 to +150	°C
Storage Temperature Range	T _{STG}	-55 to +150	°C

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

2. Measured with IF=0.5A, IR=1A, IRR=0.25A.

Rating and Characteristic Curves

Fig. 1 - Forward Current Derating Curve

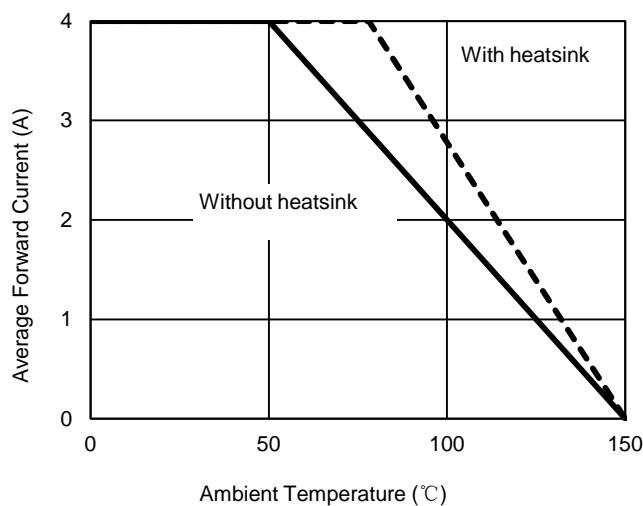


Fig. 2 - Maximum Non-Repetitive Surge Current

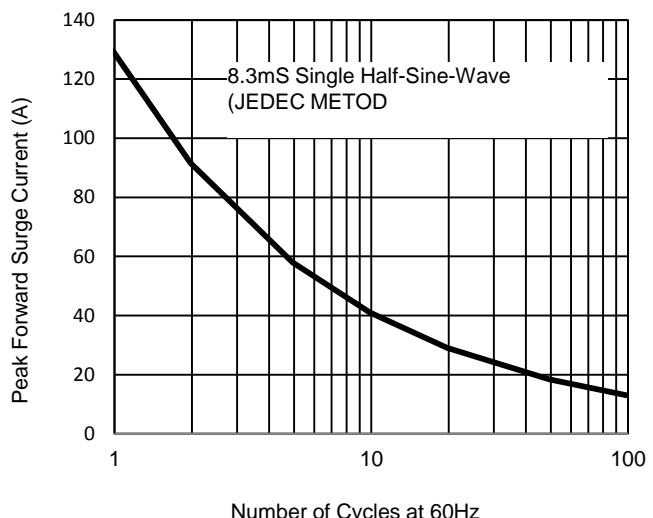


Fig. 3 - Typical Reverse Characteristics

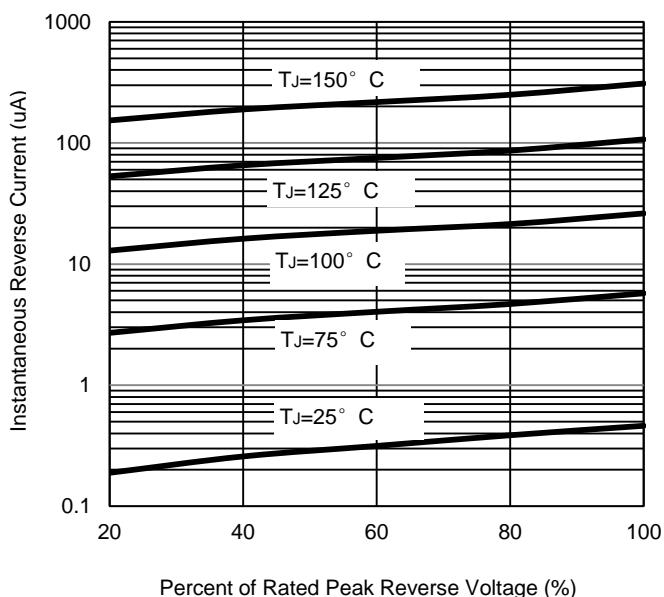


Fig. 4 - Typical Forward Characteristics

