

# GBP2005~GBP210

## Single Phase 2.0Amp Glass passivated Bridge Rectifiers

### Features

- ◆ The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- ◆ Idea for printed circuit board
- ◆ Glass passivated Junction chip
- ◆ Low reverse leakage
- ◆ High forward surge current capability
- ◆ High temperature soldering guaranteed 250°C/10 seconds at terminals

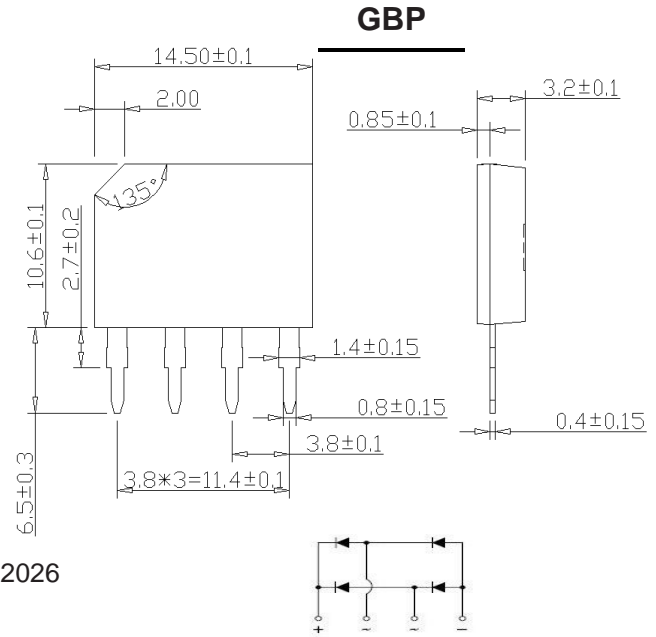
### Mechanical Data

**Case :** Molded plastic body

**Terminals :** Solder plated, solderable per MIL-STD-750, Method 2026

**Polarity :** Polarity symbol marking on body

**Mounting Position :** Any



Dimensions in inches and (millimeters)

### Maximum Ratings And Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified. Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

Parameter	SYMBOLS	GBP 2005	GBP 201	GBP 202	GBP 204	GBP 206	GBP 208	GBP 210	UNITS
Maximum repetitive peak reverse voltage	$V_{RRM}$	50	100	200	400	600	800	1000	V
Maximum RMS voltage	$V_{RMS}$	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	$V_{DC}$	50	100	200	400	600	800	1000	V
Maximum average forward rectified current with heatsink TA=100°C	$I_{(AV)}$	2.0							A
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load	$I_{FSM}$	60.0							A
Rating for fusing (t=8.3ms, Ta=25°C)	$I_t^2$	15.0							A <sup>2</sup> s
Maximum instantaneous forward voltage at 2.0A	$V_F$	1.10							V
Maximum DC reverse current at rated DC blocking voltage TA =25°C TA=100°C	$I_R$	10.0 1.0							uA mA
Typical thermal resistance	$R_{QJL}$	5.0							C/W
	$R_{QJA}$	42.0							°C/W
Operating junction and storage temperature range	$T_J, T_{STG}$	-55 to +150							°C

**Note:** 1.Note:1.The typical data above is for reference only

# GBP2005~GBP210

## Single Phase 2.0Amp Glass passivated Bridge Rectifiers

### Ratings And Characteristic Curves

FIG. 1- DERATING CURVE OUTPUT RECTIFIED CURRENT

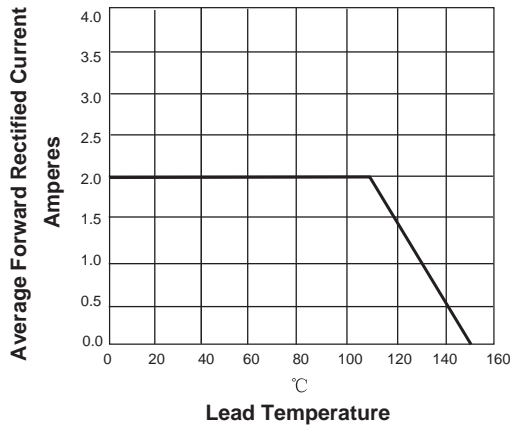


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER LEG

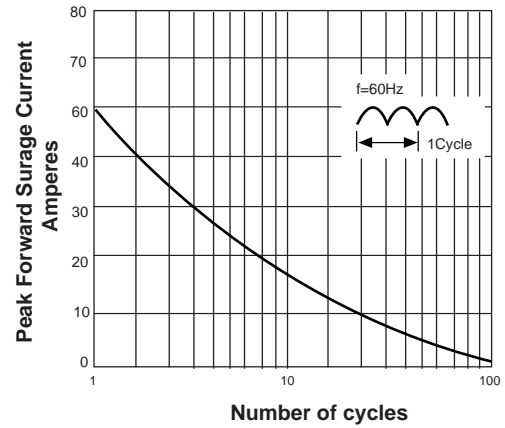


FIG. 3-TYPICAL FORWARD VOLTAGE CHARACTERISTICS

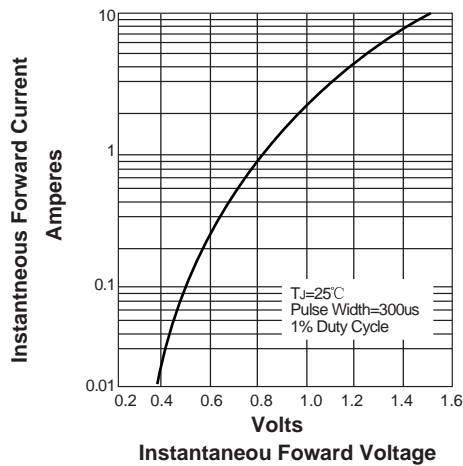


FIG. 4-TYPICAL REVERSE LEAKAGE CHARACTERISTICS

