



# GBPC35005 THRU GBPC3510

## Glass Passivated Bridge Rectifiers

Reverse Voltage - 50 to 1000 Volts

Forward Current - 35 Amperes

### Features

- Glass passivated chip
- Low forward voltage drop
- Meet UL flammability classification 94V-0

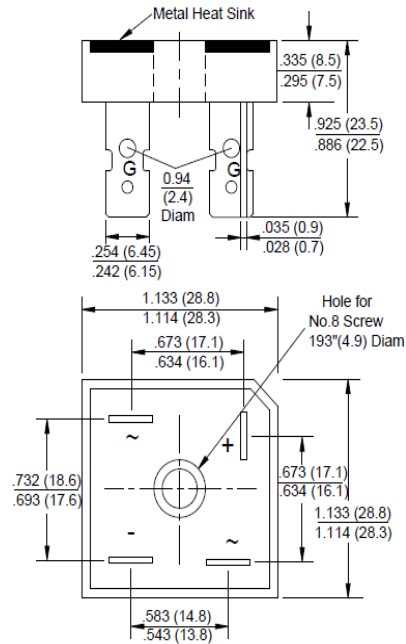
### Mechanical Data

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

### Applications

- General purpose use in AC/DC bridge full wave rectification, for home appliances, office equipment, etc.

### GBPC



Package Outline Dimensions in Inches (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	GBPC	GBPC	GBPC	GBPC	GBPC	GBPC	GBPC	Unit
		35005	3501	3502	3504	3506	3508	3510	
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 Average Forward Rectified Current @ $T_C=55^\circ\text{C}$	$I_{(AV)}$	35							A
Peak Forward Surge Current, 8.3mS Single Half Sine-Wave, Superimposed on Rated Load (JEDEC Method)	$I_{FSM}$	400							A
$I^2t$ Rating for Fusing ( $t < 8.3\text{mS}$ )	$I^2t$	664							$\text{A}^2\text{s}$
Peak Forward Voltage per Diode at 17.5A DC	$V_F$	1.1							V
Maximum DC Reverse Current at Rated @ $T_J=25^\circ\text{C}$	$I_R$	5							$\mu\text{A}$
DC Blocking Voltage per Diode @ $T_J=125^\circ\text{C}$		500							
Operating Junction Temperature Range	$T_J$	-55 to +150							$^\circ\text{C}$
Storage Temperature Range	$T_{STG}$	-55 to +150							$^\circ\text{C}$



Fig. 1 - Forward Current Derating Curve

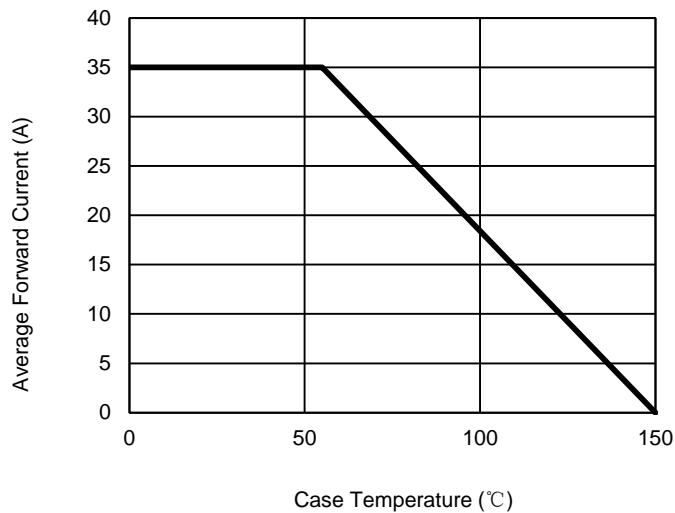


Fig. 2 - Maximum Non-Repetitive Surge Current

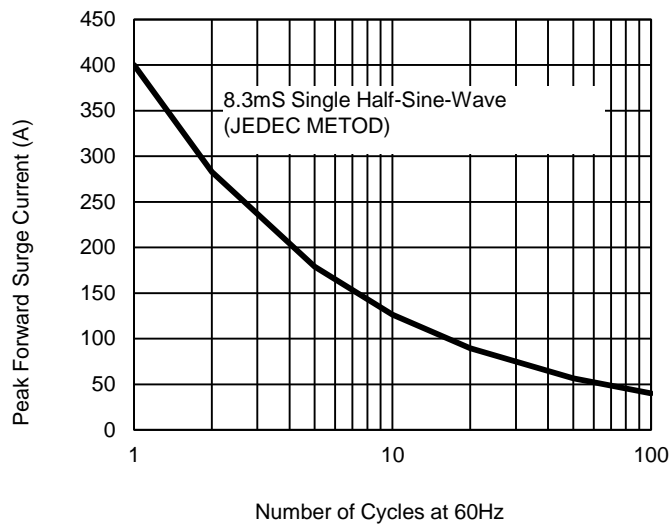


Fig. 3 - Typical Reverse Characteristics

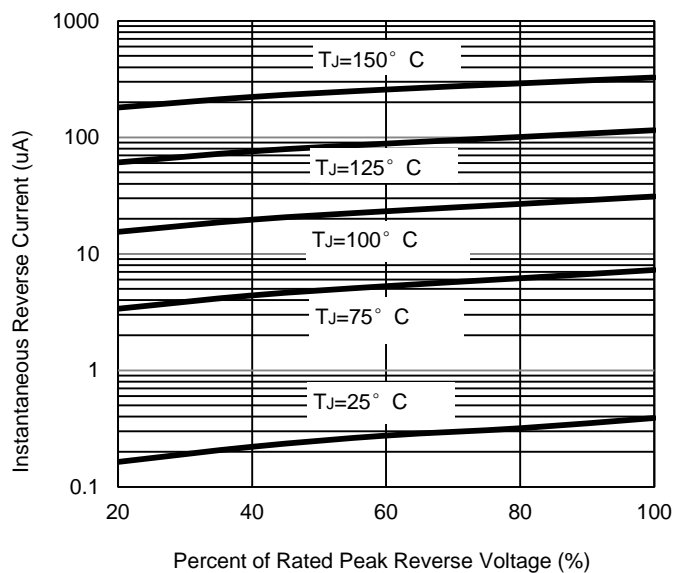
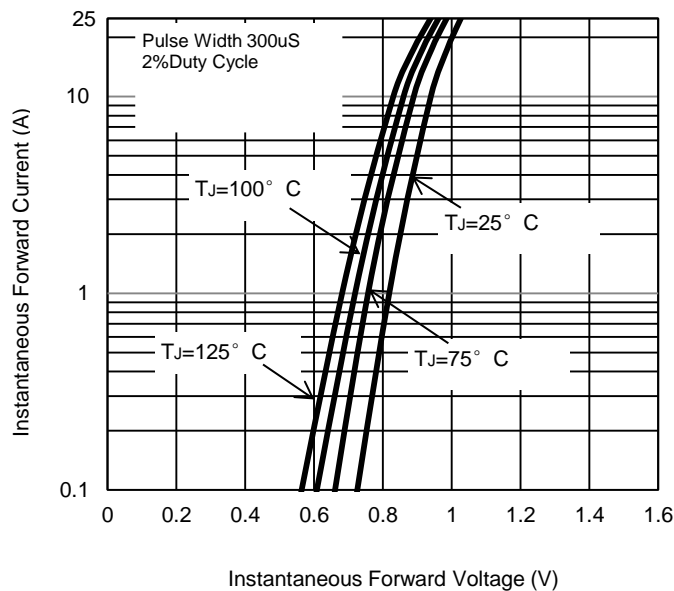


Fig. 4 - Typical Forward Characteristics



The curve above is for reference only.