

# GBPC35005~GBPC3510

## BRIDGE RECTIFIERS

**VOLTAGE** 50 to 1000 Volt **CURRENT** 35 Ampere

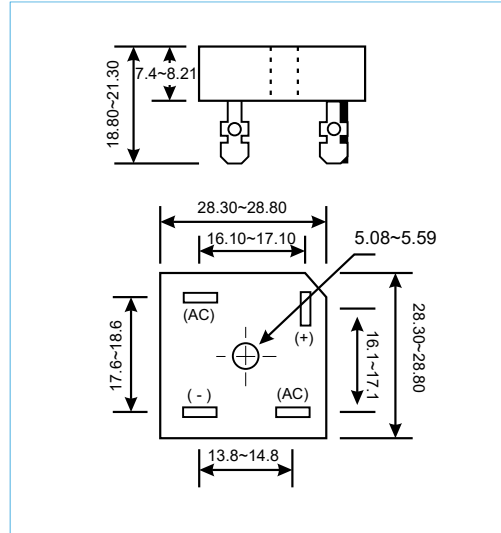
**GBPC** Unit:mm

### FEATURES

- Glass passivated chip junction
- Mounting Hole For #10 Screw
- With heat sink on top
- Low Power Loss
- Low Reverse Leakage Current
- High Efficiency
- Lead free in compliance with EU RoHS

### MECHANICAL DATA

- Case Material: Molded Plastic.
- UL Flammability Classification Rating 94V-0



## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

PARAMETER	SYMBOL	GBPC35005	GBPC3501	GBPC3502	GBPC3504	GBPC3506	GBPC3508	GBPC3510	UNITS
Maximum Recurrent 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 Current (see FIG.1)	$I_{F(AV)}$					35			A
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	$I_{FSM}$					400			A
Maximum Forward Voltage at 17.5 A	$V_F$					1.1			V
Maximum DC Reverse Current at $T_J = 25^\circ\text{C}$ Rated DC Blocking Voltage $T_J = 125^\circ\text{C}$	$I_R$					5 500			$\mu\text{A}$
Thermal Resistance (Note1)	$R_{\theta JC}$					1.35			$^\circ\text{C/W}$
$I^2t$ Rating for fusing	$I^2t$					660			$\text{A}^2\text{S}$
Typical Junction Capacitance (Note2)	$C_J$					300			pF
Operating Junction Temperature Range	$T_J$					-55 to +150			$^\circ\text{C}$
Storage Temperature Range	$T_{STG}$					-55 to +150			$^\circ\text{C}$

#### NOTES:

1. Thermal resistance junction to case mounted on heatsink.
2. Measured at 1.0MHz and applied reverse voltage of 4.0 volt

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## RATING AND CHARACTERISTIC CURVES

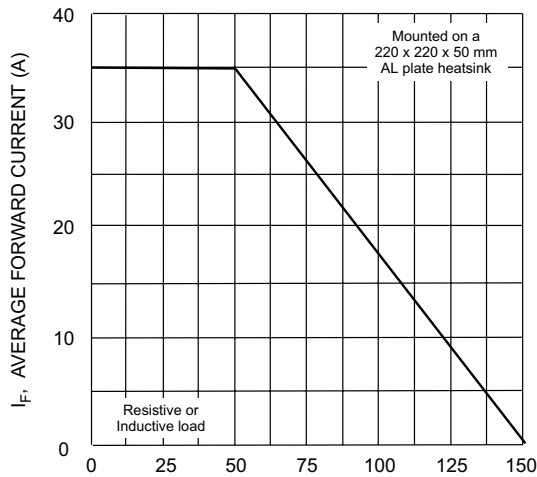


Fig. 1 Forward Current Derating Curve

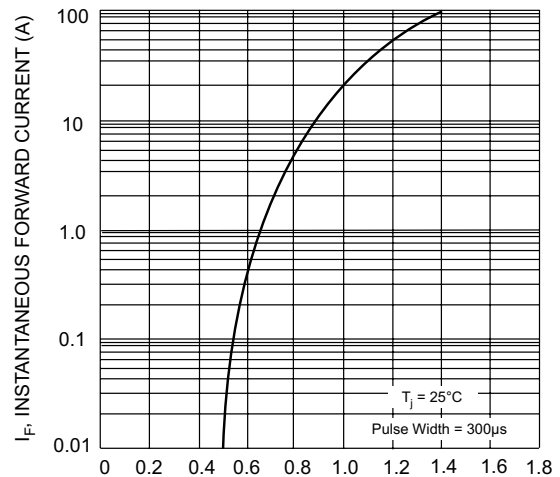


Fig. 2 Typical Forward Characteristics (per element)

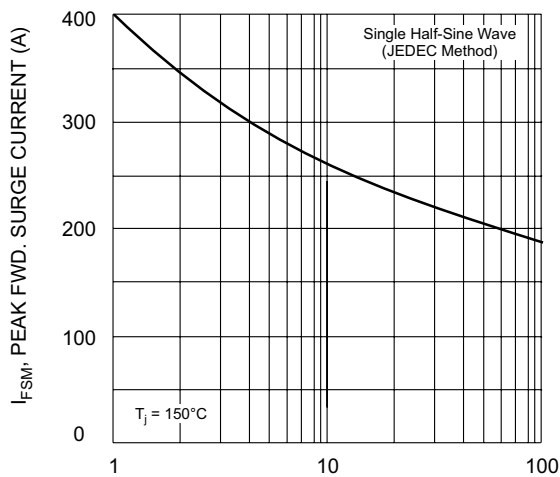


Fig. 3 Max Non-Repetitive Surge Current

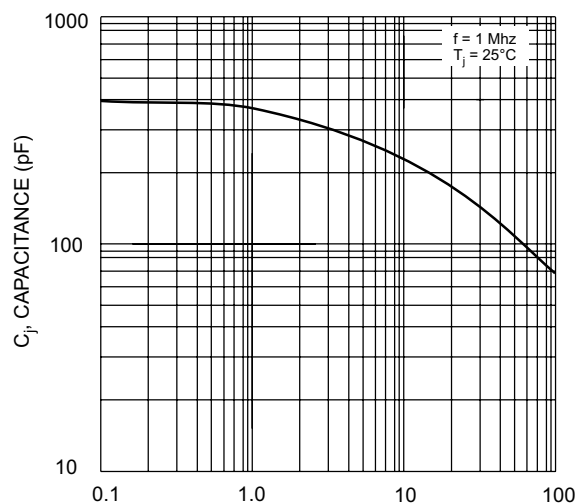


Fig. 4 Typical Junction Capacitance (per element)

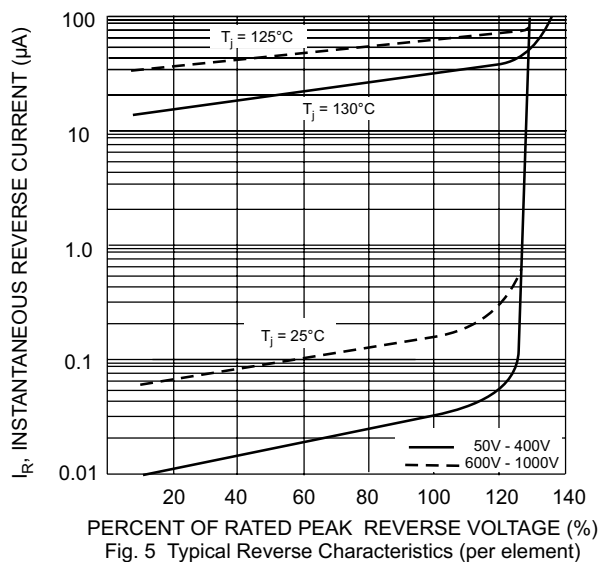


Fig. 5 Typical Reverse Characteristics (per element)

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### ORDER INFORMATION

- Packing information

Part Number	Case	DELIVERY MODE	QUANTITY
GBPC35005~GBPC3510	GBPC	BULK	400/Ctn