

GBPC35005 THRU GBPC3510

BRIDGE RECTIFIER
 Reverse Voltage: 50 to 1000 Volts
 Forward Current: 35.0 Amps

FEATURES

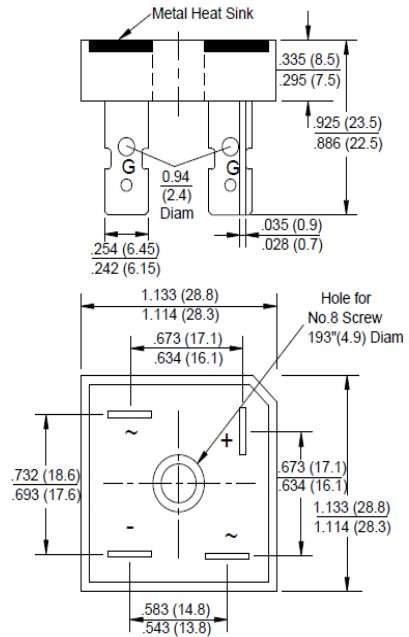
- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Glass passivated chip junction
- High surge forward current capability
- High temperature soldering guaranteed: 260°C/10 seconds at terminals
- Component in accordance to RoHS 2011/65/EU

APPLICATIONS

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



GBPC



Dimensions in inches and 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%.)

	Symbols	GBPC 35005	GBPC 3501	GBPC 3502	GBPC 3504	GBPC 3506	GBPC 3508	GBPC 3510	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current	$I_{(AV)}$	35							Amp
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	400							Amps
Rating for fusing (t<8.3ms)	I^2t	664							A^2s
Maximum Instantaneous Forward Voltage at 17.5A DC	V_F	1.1							Volts
Maximum DC Reverse Current at rated DC blocking voltage per diode	I_R	10							μA
		500							
Typical thermal resistance	$R_{\theta JC}$	1.0							$^{\circ}C/W$
Operating temperature range	T_J	-55 to +150							$^{\circ}C$
Storage temperature range	T_{STG}	-55 to +150							$^{\circ}C$

RATINGS AND CHARACTERISTIC CURVES GBPC35005 THRU GBPC3510

FIG.1-MAXIMUM FORWARD SURNGE CURRENT

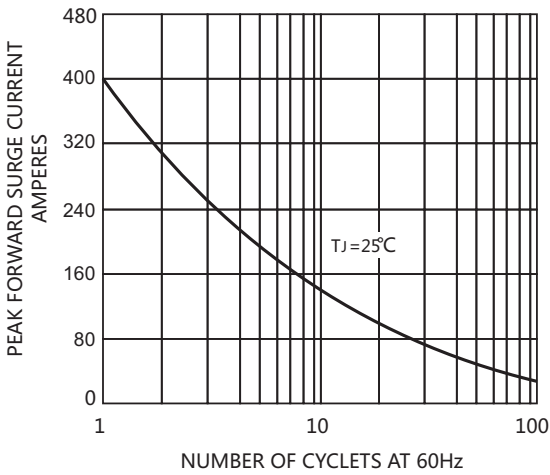


FIG.2-FORWARD CURRENT DERATING CURVE

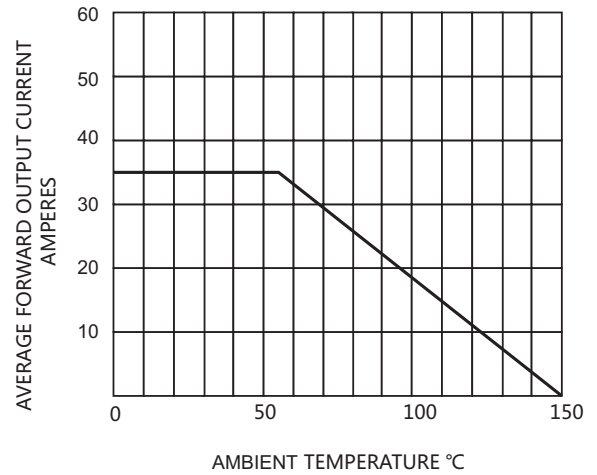


FIG.3-TYPICAL FORWARD CHARACTERISTICS

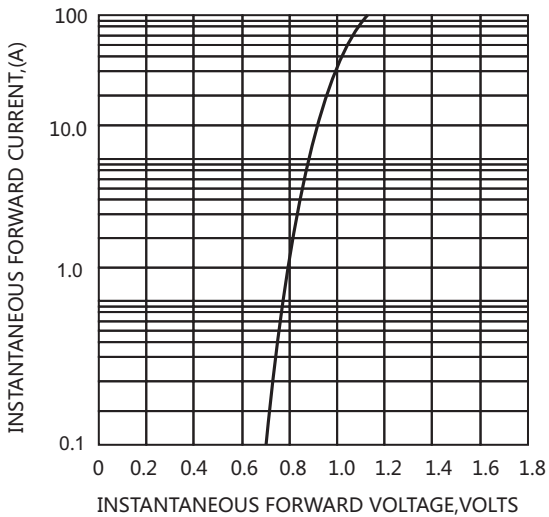


FIG.4 -TYPICAL REVERSE CHARACTERISTICS

