# GBPC3500 THRU GBPC3512



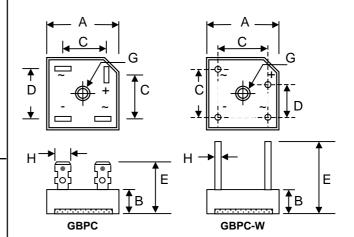
### 35A GLASS PASSIVATED SINGLE-PHASE BRIDGE RECTIFIER

# **Features**

- Glass Passivated Die Construction
- Low Reverse Leakage Current
- Low Power Loss, High Efficiency
- Electrically Isolated Epoxy Case for Maximum Heat Dissipation
- Case to Terminal Isolation Voltage 2500V

### **Mechanical Data**

- Case: Molded Plastic with Heatsink, Available in Both Low Profile and Standard Case
- Terminals: Plated Faston Lugs or Wire Leads, Add "W" Suffix to Indicate Wire Leads
- Polarity: As Marked on Case
- Mounting: Through Hole with #10 Screw
- Mounting Torque: 23 cm-kg (20 in-lbs) Max.
- Weight: 21 grams (GBPC); 18 grams (GBPC-W)
- Marking: Type Number
- Lead Free: For RoHS / Lead Free Version,
  Add "-LF" Suffix to Part Number, See Page 4



		BPC e / Standard	GBPC-W Low Profile / Standard							
Dim	Min	Max	Min	Max						
Α	28.40	28.70	28.40	28.70						
В	7.50 / 10.97	8.50 / 11.23	7.50 / 10.97	8.50 / 11.23						
С	15.70	16.70	17.10	19.10						
D	17.50	18.50	10.90	11.90						
Е	19.08 / 22.86	21.58 / 25.40	30.50	_						
G	Hole for #10 screw, 5.08Ø Nominal									
Н	6.35 T	ГурісаІ	0.97Ø 1.07Ø							
All Dimension in mm										

# Maximum Ratings and Electrical Characteristics @TA=25°C unless otherwise specified

Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Observatoristis	Symbol	GBPC35								
Characteristic		00	01	02	04	06	08	10	12	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM VRWM VR	50	100	200	400	600	800	1000	1200	V
RMS Reverse Voltage	VR(RMS)	35	70	140	280	420	560	700	840	V
Average Rectified Output Current @T <sub>C</sub> = 50°C	lo	35								Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	İFSM	400								Α
Forward Voltage per leg @I <sub>F</sub> = 17.5A	VFM	1.1								V
Peak Reverse Current $@T_C = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_C = 125^{\circ}C$	IRM	5.0 500							μΑ	
I <sup>2</sup> t Rating for Fusing (t < 8.3ms)	l²t	660								A <sup>2</sup> s
Typical Junction Capacitance (Note 1)	Cj	300								pF
Typical Thermal Resistance per leg (Note 2)	R⊕JC	1.4								°C/W
RMS Isolation Voltage from Case to Leads	Viso	2500								V
Operating and Storage Temperature Range	Tj, Tstg	-65 to +150								°C

Note: 1. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

2. Mounted on 229 x 89 x 117mm Al. finned plate.

