

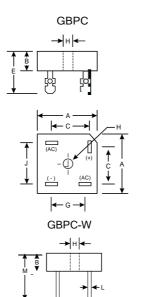
35A GLASS PASSIVATED BRIDGE RECTIFIER

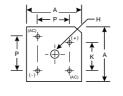
Features

- Glass Passivated Die Construction
- Diffused Junction
- Low Reverse Leakage Current
- Low Power Loss, High Efficiency
- Surge Overload Rating to 400A Peak
- Electrically Isolated Metal Base for Maximum Heat Dissipation
- Case to Terminal Isolation Voltage 1500V
- UL Listed Under Recognized Component Index, File Number E94661

Mechanical Data

- Case: Molded Plastic with Heatsink Internally Mounted in the Bridge Encapsulation
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: As Marked on Case
- Mounting: Through Hole for #10 Screw
- Mounting Torque: 8.0 Inch-pounds Maximum
- GBPC Weight: 20 grams (approx.)
- GBPC-W Weight: 14 grams (approx.)
- Mounting Position: Any





GBPC / GBPC-W							
Dim	Mi	Max					
А	28.30	28.80					
В	7.40	8.25					
С	16.10	17.10					
E	18.80	21.30					
G	13.80	14.80					
Н	Hole for #10 screw						
	5.08Ø	5.59Ø					
J	17.60	18.60					
К	10.90	11.90					
L	0.97Ø	1.07Ø					
М	31.80	_					
Р	17.60	18.60					
All Dimensions in mm							

[&]quot;W" Suffix Designates Wire Leads No Suffix Designates Faston Terminals

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

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

Characteristic		Symbol	GBPC35 005/W	GBPC35 01/W	GBPC35 02/W	GBPC35 04/W	GBPC35 06/W	GBPC35 08/W	GBPC35 10/W	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage		V _{RRM} V _{RWM} V _R	50	100	200	400	600	800	1000	V
RMS Reverse Voltage		V _{R(RMS)}	35	70	140	280	420	560	700	V
Average Rectified Output Current	@ T _c = 50°C	lo				35				Α
Non-Repetitive Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)		I _{FSM}	400						A	
Forward Voltage (per element)	@ I _F = 17.5A	V _{FM}	1.1						V	
Peak Reverse Current at Rated DC Blocking Voltage	@ T _c = 25°C @ T _c = 125°C	I _R	5.0 500						μA	
I ² t Rating for Fusing	(Note 1)	l ² t	660				A ² s			
Typical Junction Capacitance	(Note 2)	Cj	300					pF		
Typical Thermal Resistance per leg	(Note 3)	R _{0JC}				1.2				°C/W
Operating and Storage Temperature Range		Tj, TSTG	-65 to +150							°C

Notes: 1. Non-repetitive, for t > 1.0ms and t < 8.3ms.

2. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

3. Thermal resistance junction to case mounted on heatsink.



35A GLASS PASSIVATED BRIDGE RECTIFIER

TYPICAL CHARACTERISTICS

