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GBPC35005/W - GBPC3510/W

35A GLASS PASSIVATED BRIDGE RECTIFIER

WWW.DZ

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

Notes:

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GBPC / GBPC-W							
Dim	Min	Max					
Α	28.30	28.80					
В	7.40	8.25					
С	16.10	17.10					
E	18.80	<mark>21</mark> .30					
G	13.80	14.80					
10-7	Hole for #10 screw						
H	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							

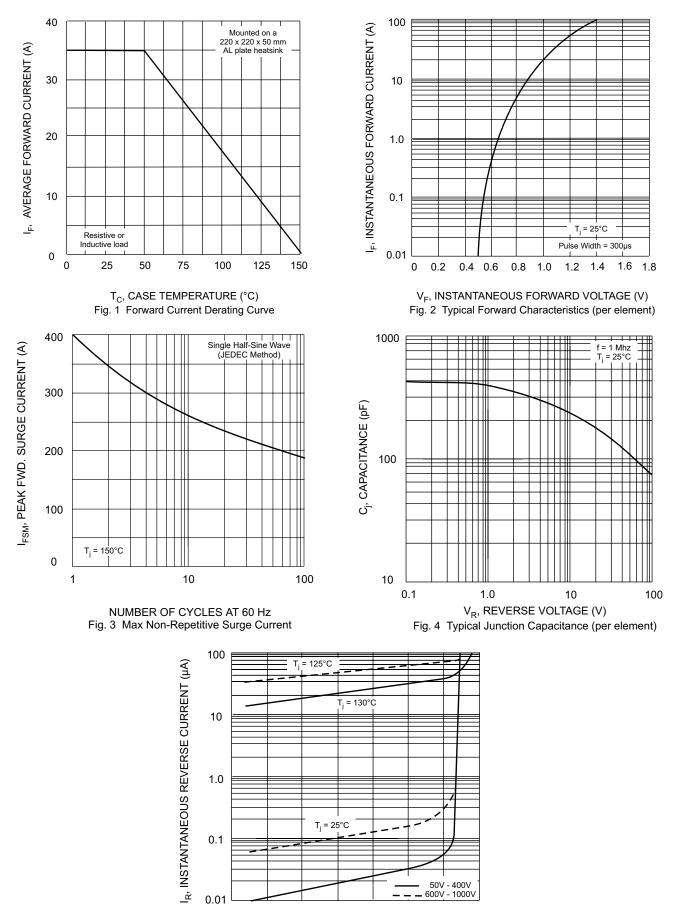
"W" Suffix Designates Wire Leads No Suffix Designates Faston Terminals

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	22	025		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	IR	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	C _j 300			pF				
Typical Thermal Resistance per leg	(Note 3)	R _{θJC} 1.2			°C/W					
Operating and Storage Temperature Range		T _j , T _{STG}	-65 to +150							°C

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. df.dzsc.com



20 40 60 80 100 120 140 PERCENT OF RATED PEAK REVERSE VOLTAGE (%) Fig. 5 Typical Reverse Characteristics (per element)