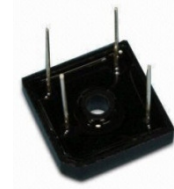


### Glass Passivated Single-Phase Bridge Rectifier, 35A

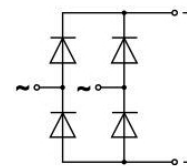
#### Features

- Glass passivated chip junction
- Low reverse leakage current
- High surge current capability
- Low power loss
- High efficiency
- Electrically isolated metal case for maximum heat dissipation



#### Mechanical Data

- Case: Molded plastic body with heatsink
- Terminals: Plated lead Solderable (Add "W" suffix for Wire Leads)
- Polarity: As marked on Case
- Mounting: Through hole for #10 Screw
- Mounting Torque: 20 in-lbs max.
- Weight: 18 grams (approx)



#### Maximum Ratings & Electrical Characteristics ( $T_A = 25^\circ\text{C}$ unless otherwise noted)

Parameter	Symbol	GBPC35(W)								Units
		005	01	02	04	06	08	10	12	
Maximum repetitive peak reverse voltage	$V_{RRM}$	50	100	200	400	600	800	1000	1200	V
Maximum RMS voltage	$V_{RMS}$	35	70	140	280	420	560	700	840	V
Maximum DC blocking voltage	$V_{DC}$	50	100	200	400	600	800	1000	1200	V
Average rectified output current	$I_O$	35								A
Non-repetitive peak forward surge current, single half sine-wave superimposed on rated load (JEDEC method)	$I_{FSM}$	400								A
DC forward voltage drop per element @17.5A	$V_F$	1.1								V
Peak reverse current at rated DC blocking voltage	$T_C = 25^\circ\text{C}$	5.0								$\mu\text{A}$
	$T_C = 125^\circ\text{C}$									
Typical junction capacitance (Note 1)	$C_J$	300								pF
Typical thermal resistance (Note 2)	$R_{\theta J-C}$	1.4								$^\circ\text{C}/\text{W}$
RMS isolation voltage	$V_{ISO}$	2500								V
Operating and Storage temperature	$T_J, T_{STG}$	-55 to +150								$^\circ\text{C}$

#### NOTES:

- (1) Measured at 1.0 MHz and applied reverse voltage of 4.0V DC.
- (2) Thermal resistance from Junction to Case per leg

