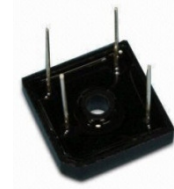## Glass Passivated Single-Phase Bridge Rectifier, 15A

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
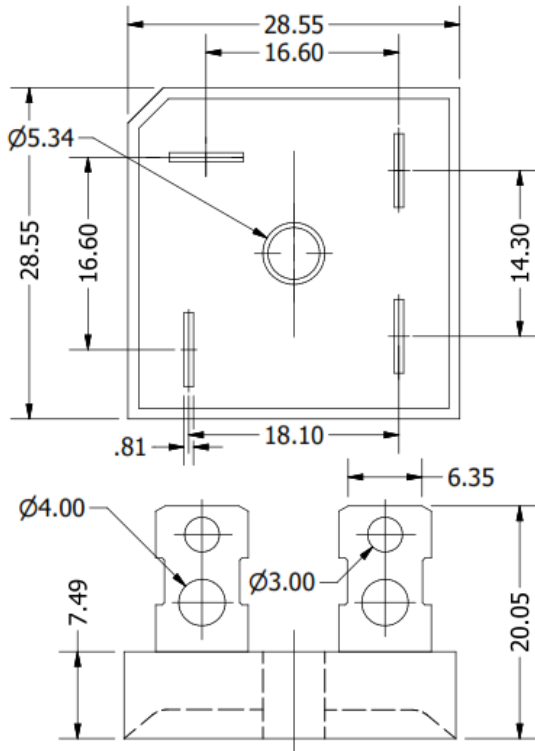- Mounting Torque: 20 in-lbs max.
- Weight: 18 grams (approx)
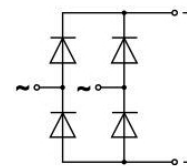
| Maximum Ratings & Electrical Characteristics ($T_A = 25^0$C unless otherwise noted)											
Parameter	**Symbol**	**GBPC15(W)**								**Units**	
		005	**01**	**02**	**04**	**06**	**08**	**10**	**12**		
Maximum repetitive peak reverse voltage	V_{RRM}	50	100	200	400	600	800	1000	1200	V	
Maximum RMS 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	15								A	
Non-repetitive peak forward surge current, single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	300								A	
DC forward voltage drop per element @ 7.5 A	V_F	1.1								V	
Peak reverse current at rated DC blocking voltage — $T_C = 25^o$C / $T_C = 125^o$C	I_R	5.0 / 500								µA	
Typical junction capacitance (Note 1)	C_J	300								pF	
Typical thermal resistance (Note 2)	$R_{\theta J-C}$	1.9								^{o}C/W	
RMS isolation voltage	V_{ISO}	2500								V	
Operating and Storage temperature	T_J, T_{STG}	-55 to +150								^{o}C	

NOTES:

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

Package Outline

GBPC (in millimeters)   *GBPC-W (in millimeters)*
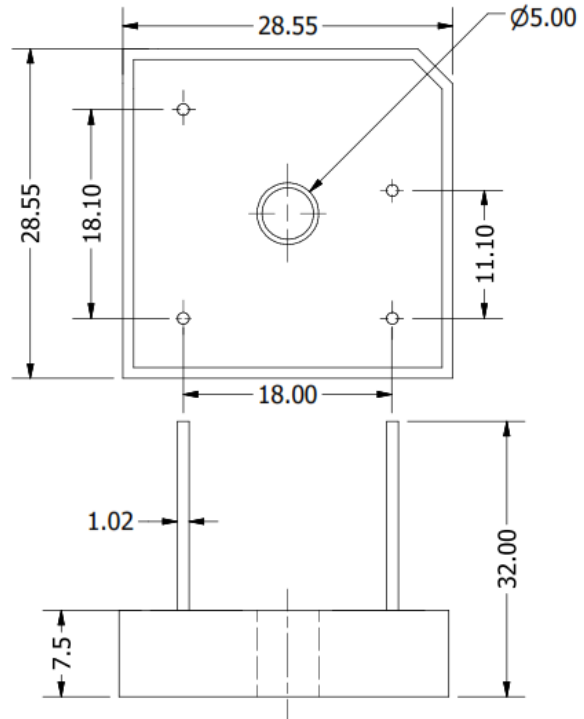
Ordering Table

GBPC	15	12	W
1	2	3	4

1 – Single-Phase Bridge

2 – Current rating = I_O

3 – Voltage Code (005, 01, 02, 04, 06, 08, 10, 12)

4 – None = GBPC (with Terminal Leads)
    W = GBPC-W (with Wire Leads)