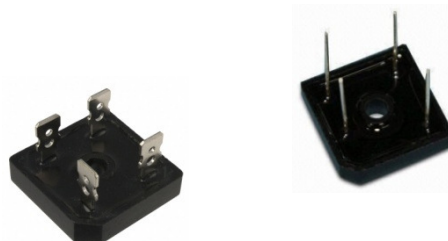


Glass Passivated Single-Phase Bridge Rectifier, 25A

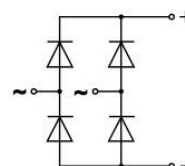
Features

- 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)

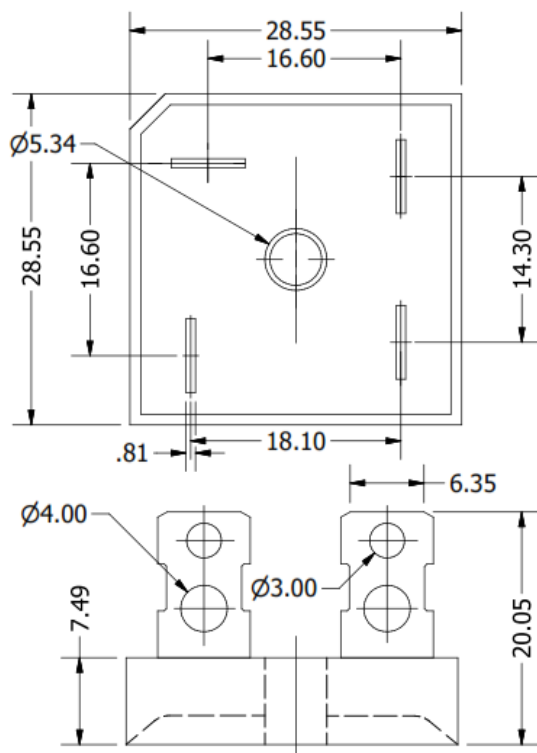
Parameter		Symbol	GBPC25(W)								Units
			005	01	02	04	06	08	10	12	
Maximum repetitive peak reverse voltage		V _{RRM}	50	100	200	400	600	800	1000	1200	V
Maximum RMS voltage		V _{RMS}	35	70	140	280	420	560	700	840	V
Maximum DC blocking voltage		V _{DC}	50	100	200	400	600	800	1000	1200	V
Average rectified output current		I _O	25								A
Non-repetitive peak forward surge current, single half sine-wave superimposed on rated load (JEDEC method)		I _{FSM}	350								A
DC forward voltage drop per element @12.5A		V _F	1.1								V
Peak reverse current at rated DC blocking voltage	T _C = 25°C	I _R	5.0								μA
	T _C = 125°C		500								
Typical junction capacitance (Note 1)		C _J	300								pF
Typical thermal resistance (Note 2)		R _{θJ-C}	1.9								°C/W
RMS isolation voltage		V _{ISO}	2500								V
Operating and Storage temperature		T _J , T _{STG}	-55 to +150								°C

NOTES:

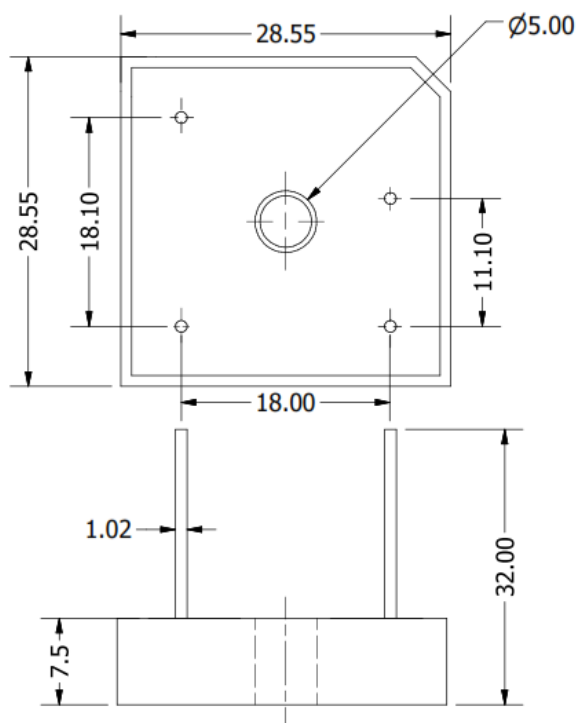
- (1) Measured at 1.0 MHz and applied reverse voltage of 4.0V DC.
- (2) Thermal resistance from Junction to Case per leg.

Package Outline

GBPC (in millimeters)



GBPC-W (in millimeters)



Ordering Table

GBPC	25	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)