NSL> Naina Semiconductor Ltd.

GBPC35-GBPC35W

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

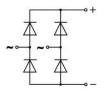
Mechanical Data

- 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)

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Maximum Ratings & Electrical Characteristics (T _A = 25 ^o C unless otherwise noted)											
Parameter		Symbol	GBPC35(W)								Linita
			005	01	02	04	06	08	10	12	Units
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		Ι _ο	35							А	
Non-repetitive peak forward surge current, single half sine-wave superimposed on rated load (JEDEC method)		_{FSM}	400						A		
DC forward voltage drop per element @17.5A		V _F	1.1						V		
Peak reverse current at rated DC blocking voltage	$T_c = 25^{\circ}C$ $T_c = 125^{\circ}C$	I _R				_	.0 00				μΑ
Typical junction capacitance (Note 1)		C	300							рF	
Typical thermal resistance (Note 2)		$R_{\theta J-C}$	1.4						°C/W		
RMS isolation voltage		V _{ISO}	2500						V		
Operating and Storage temperature		T _J , T _{STG}	-55 to +150						°C		

NOTES:

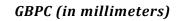
(1) Measured at 1.0 MHz and applied reverse voltage of 4.0V DC.

(2) Thermal resistance from Junction to Case per leg

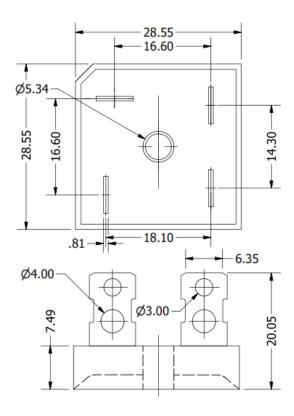
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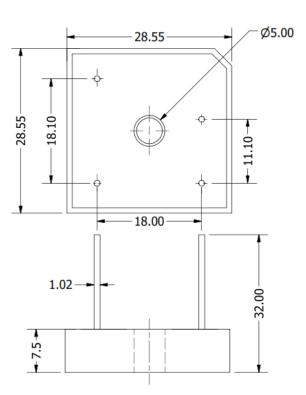
GBPC35-GBPC35W

Package Outline



GBPC-W (in millimeters)





Ordering Table

GBPC	35	12	W
1	2	3	4

- 1 Single-Phase Bridge
- $2 Current rating = I_0$
- 3 Voltage Code (005, 01, 02, 04, 06, 08, 10, 12)
- 4 None = GBPC (with Terminal Leads)
 - W = GBPC-W (with Wire Leads)