

GBPC35.12W

1PH POWER RECTIFIER BRIDGE 35A 1200V



Features

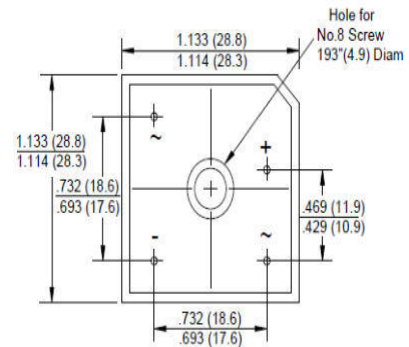
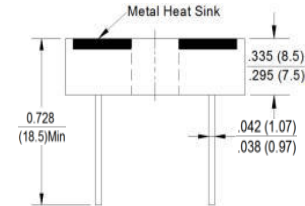
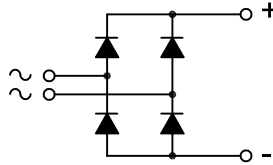
- Glass passivated chip
- Low forward voltage drop

Mechanical Data

- Polarity: Symbol marked on body
- Mounting position: Any

Applications

- General purpose use in AC/DC bridge full wave rectification, for home appliances, office equipment, etc.



Package Outline Dimensions in Inches (Millimeters)

Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.

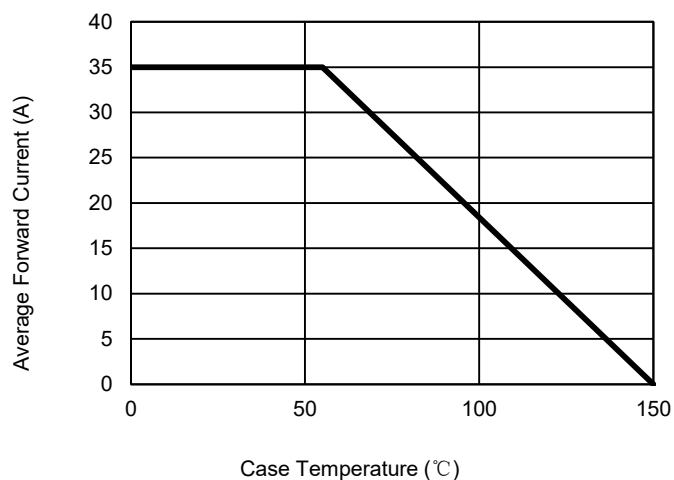
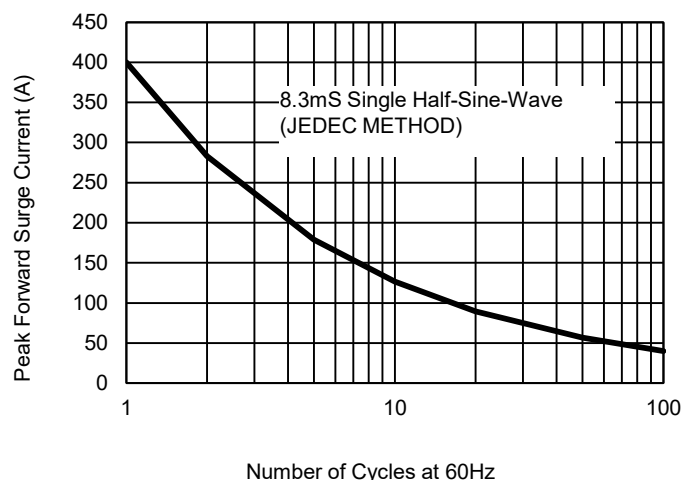
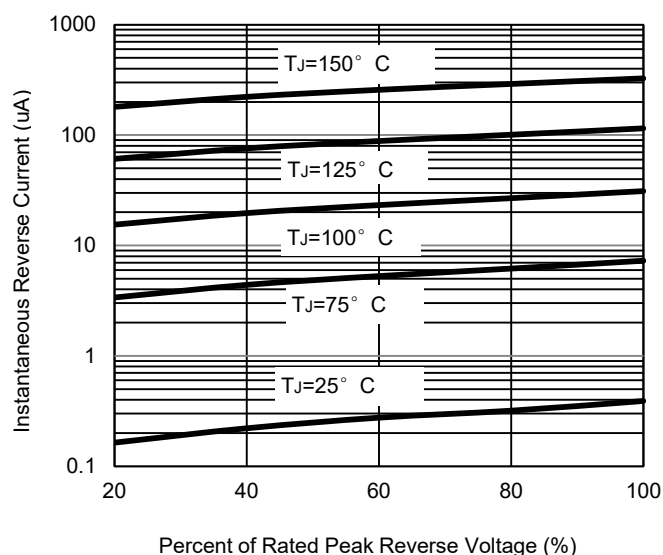
Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

Characteristics	Symbol	GBPC3512W	Unit
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	1200	V
Maximum RMS Voltage	V _{RMS}	840	V
Maximum Average Forward Rectified Current @T _c =55 °C	I _(AV)	35	A
Peak Forward Surge Current, 8.3ms Single Half Sine-Wave, Superimposed on Rated Load (JEDEC Method)	I _{FSM}	400	A
I ² t Rating for Fusing (t<8.3ms)	I ² t	664	A ² s
Peak Forward Voltage per Diode at 17.5A DC	V _F	1.1	V
Maximum DC Reverse Current at Rated @T _J =25°C	I _R	5	μA
DC Blocking Voltage per Diode @T _J =125°C		500	
Typical Thermal Resistance to case (Note1、 2)	R _{θJC}	1.35	°C/W
Operating Junction Temperature Range	T _J	-55 to +150	°C
Storage Temperature Range	T _{STG}	-55 to +150	°C

Notes: 1. Device mounted on 300mm*300mm*1.6mm Cu plate heatsink.

2. The typical data above is for reference only.

Fig. 1 - Forward Current Derating Curve

Fig. 2 - Maximum Non-Repetitive Surge Current

Fig. 3 - Typical Reverse Characteristics

Fig. 4 - Typical Forward Characteristics
