



Pb Free Plating Product

GBJ3506 thru GBJ3510

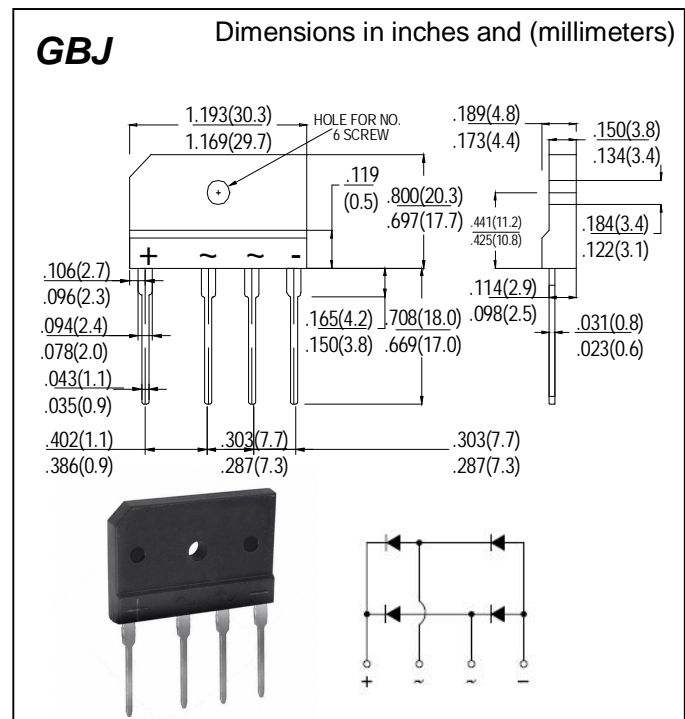
35.0 AMPERE GLASS PASSIVATED FLAT BRIDGE RECTIFIERS

**Features**

- Glass passivated chip junction
- Low forward voltage drop
- High surge overload rating of 350 A peak
- Ideal for printed circuit board

**Mechanical Data**

- Case: Molded plastic, GBJ(5S/6KBJ)
- Epoxy: UL 94V-0 rate flame retardant
- Terminals: Leads solderable per JESD22-B102, Meet JESD 201 class 2 whisker test
- Mounting position: Any



**Absolute Maximum Ratings and Characteristics**

Ratings at 25 °C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T <sub>A</sub> =25°C unless otherwise noted)					
PARAMETER	SYMBOL	GBJ3506	GBJ3508	GBJ3510	UNIT
Maximum repetitive peak reverse voltage	V <sub>RRM</sub>	600	800	1000	V
Maximum RMS voltage	V <sub>RMS</sub>	420	560	700	V
Maximum DC blocking voltage	V <sub>DC</sub>	600	800	1000	V
Maximum average forward rectified current	I <sub>F(AV)</sub>	35			A
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load	I <sub>FSM</sub>	350			A
Rating for fusing (t<8.3ms)	I <sup>2</sup> t	508			A <sup>2</sup> s
Maximum instantaneous forward voltage (Note 1) @ 17.5 A	V <sub>F</sub>	1.1			V
Maximum reverse current @ rated V <sub>R</sub>	I <sub>R</sub>	10 500			μA
		T <sub>J</sub> =25°C T <sub>J</sub> =125°C			
Typical thermal resistance (Note 2)	R <sub>θJC</sub>	0.6			°C/W
Operating junction temperature range	T <sub>J</sub>	- 55 to +150			°C
Storage temperature range	T <sub>STG</sub>	- 55 to +150			°C

Note 1: Pulse test with PW=300μs, 1% duty cycle

Note 2: With idea heatsink

RATINGS AND CHARACTERISTICS CURVES

( $T_A=25^\circ\text{C}$  unless otherwise noted)

