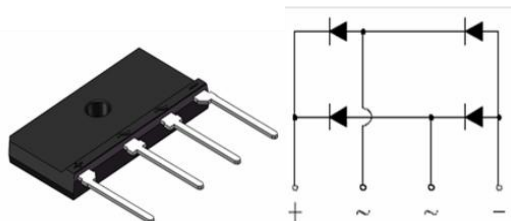


## Reverse Voltage 600~1000V Output Current 35.0A

### Features

- Thin Single In-Line package;
- Ideal for printed circuit boards;
- Glass Passivated chip junction;
- Low profile package;
- High Surge current capability;
- High case dielectric strength of 2500 VRMS;
- Plastic package has Underwrites Laboratory Flammability Classification 94V-0;
- Same footprint V.S GBJ package;



GBJL

### Typical Applications

- General purpose use in ac-to-dc bridge full wave rectification for TV, Monitor, SMPS, Adapter, Printer, Audio equipment, and Home Applications application

### Mechanical Data

- Case: GBJL; Epoxy meets UL-94V-0 Flammability rating; Base P/N with suffix "E" on packing code-halogen free;
- Terminals: Matte tin plated leads, solderable per J-STD-002 and JESD22-B102; E3 suffix for customer grade, meet JESD 201;

#### Maximum Ratings (TA = 25 °C unless otherwise noted)

Parameter	Symbol	GBJL35J	GBJL35K	GBJL35M	Unit
Maximum repetitive peak reverse voltage	$V_{RRM}$	600	800	1000	V
Maximum RMS voltage	$V_{RMS}$	420	560	700	V
Maximum DC blocking voltage	$V_{DC}$	600	800	1000	V
Maximum average forward rectified output current at	$I_{F(AV)}$				A
		$T_A=25^{\circ}C$	3.8 <sup>(2)</sup>		
Peak forward surge current single sine-wave superimposed on rated load (JEDEC Method)	$I_{FSM}$	450			A
Rating for fusing ( $t \leq 8.3ms$ )	$I^2t$	844			A <sup>2</sup> s
Operating junction and storage temperature range	$T_J, T_{STG}$	-55 to 150			°C

<b>Electrical Characteristics</b> (TA = 25 °C unless otherwise noted)						
Parameter	Test Conditions	Symbol	GBJL35J	GBJL35K	GBJL35M	Unit
Maximum instantaneous forward voltage	I <sub>F</sub> =17.5A	V <sub>F</sub>	1.05			Volts
Maximum DC reverse current at rated DC blocking voltage	TA=25°C	I <sub>R</sub>	5.0			μA
	TA=125°C		150			
Typical thermal resistance per leg		R <sub>θJA</sub>	22 <sup>(2)</sup>			°C/W
		R <sub>θJL</sub>	1.5 <sup>(1)</sup>			

Notes:

- 1). Unit case mounted on Al plate heatsink;
- 2). Units mounted on PCB without heatsink;
- 3). Recommended mounting position is to bolt down on heatsink with silicone thermal compound for maximum heat transfer with M3 screw.

## Ratings and Characteristics Curves

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

FIG.1-DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

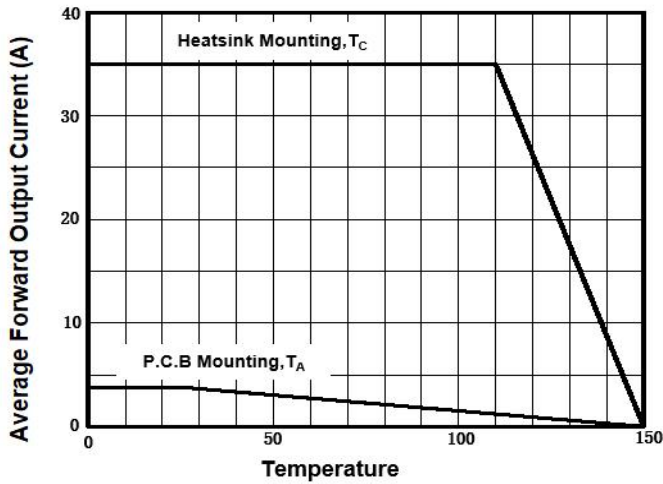


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

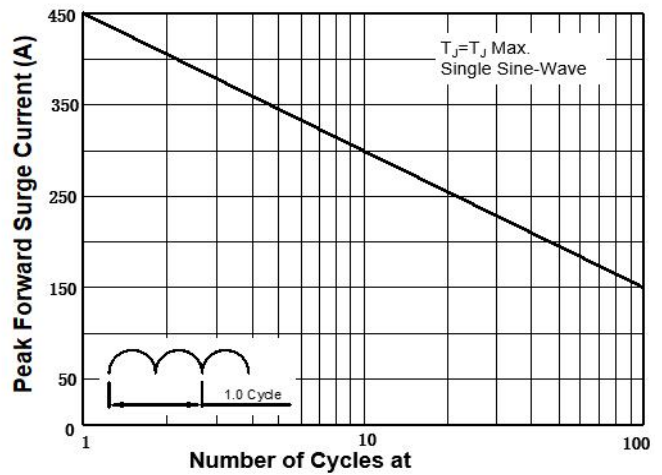


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

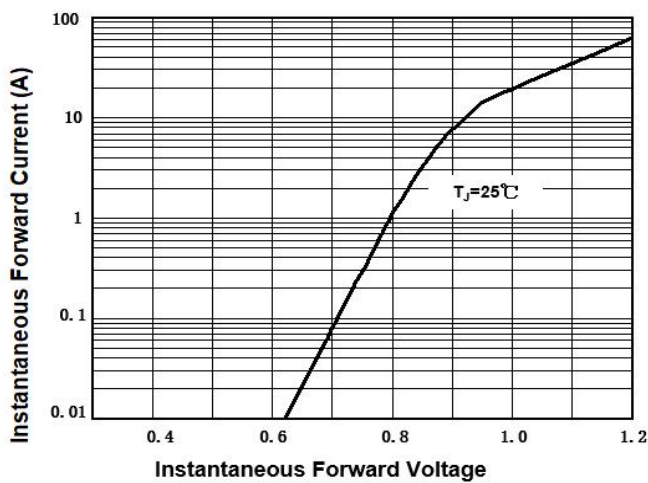
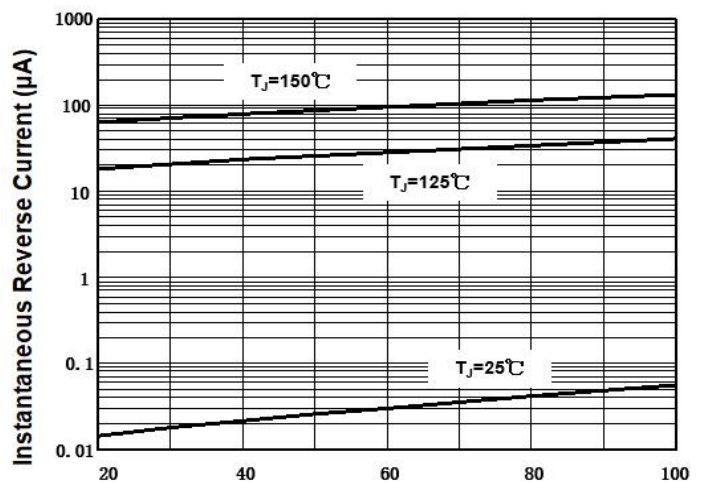


FIG.4-TYPICAL REAK REVERSE VOLTAGE CHARACTERISTICS





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