

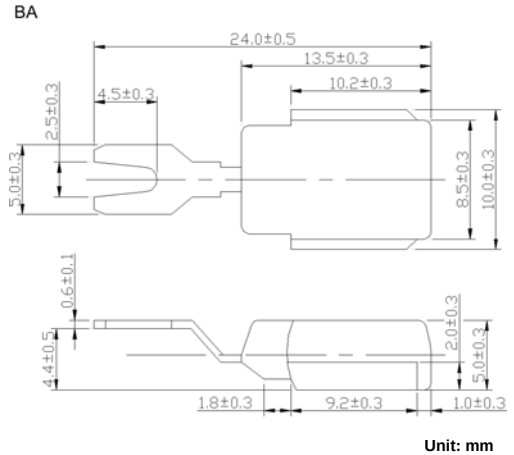
## Technical Specification:

### Features:

- ◆ High power capability
- ◆ Economical
- ◆ Avalanche Voltage: 20V to 24V

### Mechanical Data:

- ◆ Copper cup with transfer molded plastic
- ◆ Epoxy: UL94-0 rate flame retardant
- ◆ Polarity: GBA35L-P lead-P  
GBA35L-N lead-N
- ◆ Glass passivated chip or o.j chip
- ◆ Technology vacuum soldered
- ◆ Lead: Plated lead, solderable per MIL-STD-202E method 208C
- ◆ Weight: 0.094 ounces, 2.65 grams



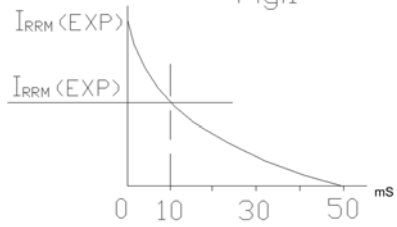
## Maximum Ratings and Electrical Characteristics

- ◆ 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%.

| Parameters                                                                     | Symbols        | GBA35L-P /GBA35L-N |         |      | Units |
|--------------------------------------------------------------------------------|----------------|--------------------|---------|------|-------|
|                                                                                |                | Min.               | Nominal | Max. |       |
| DC peak repetitive reverse voltage                                             | $V_{RRM}$      |                    | 17      |      | Volts |
| Working peak reverse voltage                                                   | $V_{RWM}$      |                    | 17      |      |       |
| DC blocking voltage                                                            | $V_R$          |                    | 17      |      |       |
| Average rectified forward current at $T_c=125^\circ\text{C}$                   | $I_T$          |                    | 35      |      | Amps  |
| Repetitive peak reverse surge current<br>$T_c=80\text{m sec duty cycle } <1\%$ | $I_{TSM}$      |                    | 35      |      | Amps  |
| Breakdown voltage ( $V_{BR}$ @ $I_T=100\text{mA}$ )                            | $V_{BR}$       | 20                 | 22      | 24   | Volts |
| $I_T=90\text{Amps}, T_c=150^\circ\text{C}, PW=80\text{u sec}$                  | $V_{BR}$       |                    |         | 32   |       |
| Forward voltage drop ( $V_{SD}$ ) @ $I_T=100\text{Amps} <300\text{u sec}$      | $V_F$          | 0.98               | 1.05    | 1.10 | Volts |
| Peak forward surge current                                                     | $I_{FSM}$      |                    | 400     |      | Amps  |
| Reverse leakage ( $I_R=17\text{Vdc}$ ) $T_A=25^\circ\text{C}$                  | $I_R$          | 0.2                | 1.0     | 2.0  | uA    |
| Operating and storage junction temperature range                               | $T_J, T_{STG}$ | -65 to +175        |         |      | °C    |

**Notes:** 1. Enough heatsink must be considered in application.

Fig.1



Surge current characteristics