

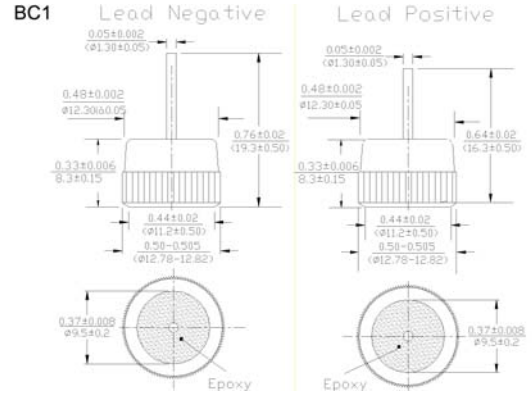
## Technical Specification:

### Features:

- ◆ High power capability
- ◆ Economical
- ◆ Avalanche Voltage: 24V to 32V

### Mechanical Data:

- ◆ Case: Copper case
- ◆ Epoxy: UL94-0 rate flame retardant
- ◆ Polarity: As marked of case bottom
- ◆ Glass passivated chip
- ◆ Technology vacuum soldered
- ◆ Lead: Plated lead, solderable per MIL-STD-202E method 208C
- ◆ Weight: 0.28 ounces, 8.05 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%.

| Electrical Characteristics @ 25°C  | Symbols               | Min.        | Nominal | Max. | Units            |
|--|-----------------------|-------------|---------|------|------------------|
| Peak repetitive reverse voltage  | $V_{RRM}$             |             | 20      |      | Volts            |
| Working peak reverse voltage   | $V_{RWM}$             |             | 20      |      |                  |
| DC blocking voltage  | $V_{DC}$              |             | 20      |      |                  |
| Average rectified forward current at $T_c=125^\circ\text{C}$   | $I_D$                 |             | 40      |      | Amps             |
| Repetitive peak reverse surge current<br>$T_c=10\text{m sec duty cycle } <1\%$   | $I_{RRM}$             |             | 40      |      | Amps             |
| Breakdown voltage ( $V_{BR}$ @ $I_F=100\text{mA}$ , $T_c=25^\circ\text{C}$ )<br>$I_F=90\text{Amps}$ , $T_c=150^\circ\text{C}$ , $PW=80\text{usec}$ | $V_{BR}$<br>$V_{RSM}$ | 24          | 25/27   | 32   | Volts            |
| Forward voltage drop ( $V_{SD}$ ) @ $I_F=100\text{Amps}$ <math>300\text{usec}</math>   | $V_F$                 | 0.98        | 1.05    | 1.08 | Volts            |
| Peak forward surge current   | $I_{FSM}$             |             | 500     |      | Amps             |
| Reverse leakage ( $V_R=20\text{Vdc}$ ) $T_c=25^\circ\text{C}$  | $I_R$                 | 0.2         | 1.0     | 2.0  | $\mu\text{A}$    |
| Operating junction and storage temperature range   | $T_J, T_{STG}$        | -65 to +175 |         |      | $^\circ\text{C}$ |

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

