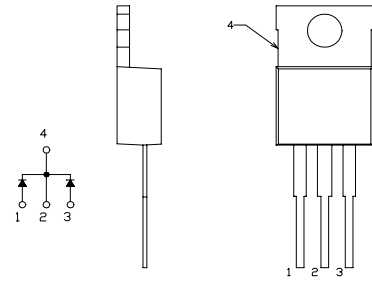


# SBD Type : GCH30A09

## OUTLINE DRAWING

### FEATURES

- \*Similar to TO-220AB Case
- \*Dual Diodes – Cathode Common
- \*Low Forward Voltage Drop
- \*High Surge Capability
- \*Tj=150 °C operation



## Maximum Ratings

Approx Net Weight: 1.9g

| Rating                              | Symbol              | GCH30A09                 |                                               |                                        | Unit |
|-------------------------------------|---------------------|--------------------------|-----------------------------------------------|----------------------------------------|------|
| Repetitive Peak Reverse Voltage     | V <sub>RRM</sub>    | 90                       |                                               |                                        | V    |
| Average Rectified Output Current    | I <sub>O</sub>      | 30                       | Tc=106°C                                      | 50 Hz Full Sine Wave<br>Resistive Load | A    |
| RMS Forward Current                 | I <sub>F(RMS)</sub> | 33.3                     |                                               |                                        | A    |
| Surge Forward Current               | I <sub>FSM</sub>    | 250                      | 50Hz Full Sine Wave ,1cycle<br>Non-repetitive |                                        | A    |
| Operating JunctionTemperature Range | T <sub>jw</sub>     | -40 to +150              |                                               |                                        | °C   |
| Storage Temperature Range           | T <sub>stg</sub>    | -40 to +150              |                                               |                                        | °C   |
| Mounting torque                     | F <sub>tor</sub>    | recommended torque = 0.5 |                                               |                                        | N•m  |

## Electrical • Thermal Characteristics

| Characteristics      | Symbol        | Conditions                                 | Min. | Typ. | Max. | Unit  |
|----------------------|---------------|--------------------------------------------|------|------|------|-------|
| Peak Reverse Current | $I_{RM}$      | Tj= 25°C, $V_{RM}= V_{RRM}$<br>per arm     | -    | -    | 2    | mA    |
| Peak Forward Voltage | $V_{FM}$      | Tj= 25°C, $I_{FM}= 15\text{ A}$<br>per arm | -    | -    | 0.88 | V     |
| Thermal Resistance   | $R_{th(j-c)}$ | Junction to Case                           | -    | -    | 1.5  | °C /W |

GCH30A09 OUTLINE DRAWING (Dimentions in mm)

