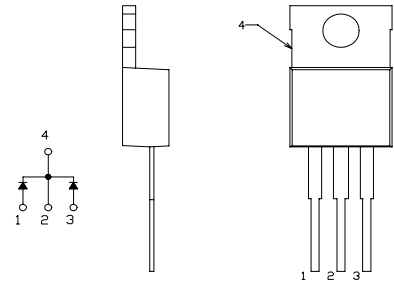


# SBD Type : GCQ30A03L

## OUTLINE DRAWING

### FEATURES

- \*Similar to TO-220AB Case
- \*Dual Diodes – Cathode Common
- \*Low Forward Voltage Drop
- \*High Surge Capability
- \*T<sub>j</sub>=150 °C operation



## Maximum Ratings

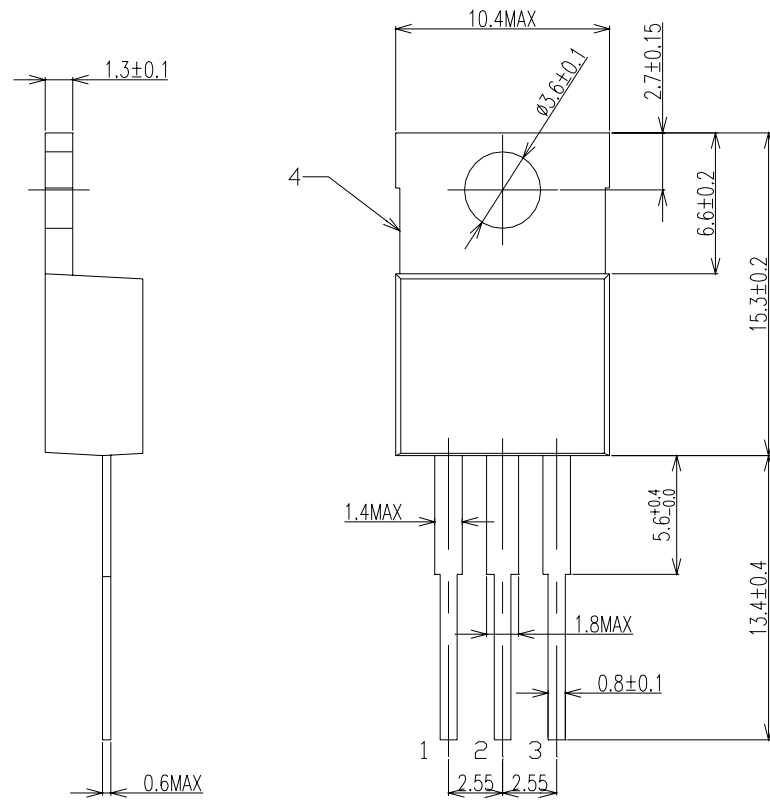
Approx Net Weight: 1.9g

| Rating                                | Symbol              | GCQ30A03L                           |                                               |                                        | Unit |
|---------------------------------------|---------------------|-------------------------------------|-----------------------------------------------|----------------------------------------|------|
| Repetitive Peak Reverse Voltage       | V <sub>RRM</sub>    | 30                                  |                                               |                                        | V    |
| Repetitive Peak Surge Reverse Voltage | V <sub>RRSM</sub>   | 35(pulse width ≤ 1μs   duty ≤ 1/50) |                                               |                                        | V    |
| Average Rectified Output Current      | I <sub>O</sub>      | 30                                  | Tc=105℃                                       | 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                         |                                               |                                        | ℃    |
| Storage Temperature Range             | T <sub>stg</sub>    | -40 to +150                         |                                               |                                        | ℃    |
| 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 <sub>RM</sub>      | T <sub>j</sub> = 25°C, V <sub>RM</sub> = V <sub>RRM</sub><br>per arm | -    | -    | 15   | mA    |
| Peak Forward Voltage | V <sub>FM</sub>      | T <sub>j</sub> = 25°C, I <sub>FM</sub> = 15 A<br>per arm             | -    | -    | 0.49 | V     |
| Thermal Resistance   | R <sub>th(j-c)</sub> | Junction to Case                                                     | -    | -    | 1.5  | °C /W |

# GCQ30A03L OUTLINE DRAWING (Dimensions in mm)



Center Tap

