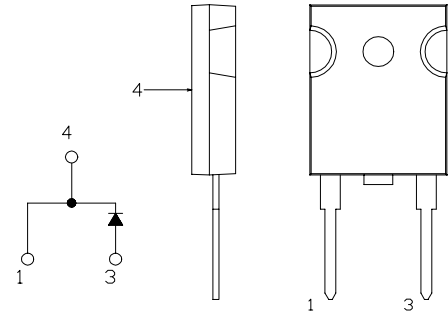


# SBD    Type : KSQ30A06

OUTLINE DRAWING

## FEATURES

- \* Similar to TO-247AC(TO-3P)Case
- \* Low Forward Voltage Drop
- \* Low Power Loss,High Efficiency
- \* High Surge Current Capability
- \* 40 Volts thru 60 Volts   Types Available



## Maximum Ratings

Approx Net Weight: 5.5g

| Rating                              | Symbol              | KSQ30A06                 |                                               |                                        | Unit |
|-------------------------------------|---------------------|--------------------------|-----------------------------------------------|----------------------------------------|------|
| Repetitive Peak Reverse Voltage     | V <sub>RRM</sub>    | 60                       |                                               |                                        | V    |
| Average Rectified Output Current    | I <sub>O</sub>      | 30                       | Tc=98℃                                        | 50 Hz half Sine Wave<br>Resistive Load | A    |
| RMS Forward Current                 | I <sub>F(RMS)</sub> | 47.1                     |                                               |                                        | A    |
| Surge Forward Current               | I <sub>FSM</sub>    | 400                      | 50Hz Half 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 | $I_{RM}$         | $T_j= 25^{\circ}\text{C}, V_{RM}= V_{RRM}$      | -                | -    | 25   | mA                       |
| Peak Forward Voltage | $V_{FM}$         | $T_j= 25^{\circ}\text{C}, I_{FM}= 30 \text{ A}$ | -                | -    | 0.67 | V                        |
| Thermal Resistance   | Junction to Case | $R_{th(j-c)}$                                   | Junction to Case | -    | -    | 1.3 $^{\circ}\text{C/W}$ |

## KSQ30A06 OUTLINE DRAWING (Dimention in mm)

