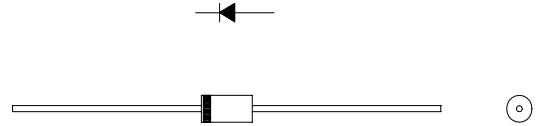


# SBD Type : 21DQ03L

## FEATURES

- \* Miniature Size
- \* Extremely Low Forward Voltage Drop
- \* Low Power Loss, High Efficiency
- \* High Surge Capability
- \* 30volts trough 100volts Types Available
- \* 52mm Inside Tape Spacing Package Available

## OUTLINE DRAWING



## Maximum Ratings

Approx Net Weight:0.38g

| Rating                              |                          | Symbol              | 21DQ03L       |                                      |                               | Unit |
|-------------------------------------|--------------------------|---------------------|---------------|--------------------------------------|-------------------------------|------|
| Repetitive Peak Reverse Voltage     |                          | V <sub>RRM</sub>    | 30            |                                      |                               | V    |
| Average Rectified Output Current    | Without Fin or P.C.Board | I <sub>O</sub>      | 1.42          | Ta=25°C                              | Half Sine Wave Resistive Load | A    |
|                                     | P.C.Board Mounted *      |                     | 1.7           | Ta=30°C                              |                               |      |
| RMS Forward Current                 |                          | I <sub>F(RMS)</sub> | 2.67          |                                      |                               | A    |
| Surge Forward Current               |                          | I <sub>FSM</sub>    | 50            | Half Sine Wave,1cycle,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   |

## Electrical • Thermal Characteristics

| Characteristics                         | Symbol        | Conditions                                       | Min | Typ | Max  | Unit                 |
|-----------------------------------------|---------------|--------------------------------------------------|-----|-----|------|----------------------|
| Peak Reverse Current                    | $I_{RM}$      | $T_j= 25^{\circ}\text{C}, V_{RM}= V_{RRM}$       | -   | -   | 2    | mA                   |
| Peak Forward Voltage                    | $V_{FM}$      | $T_j= 25^{\circ}\text{C}, I_{FM}= 1.7 \text{ A}$ | -   | -   | 0.45 | V                    |
| Thermal Resistance(Junction to Ambient) | $R_{th(j-a)}$ | Without Fin or P.C.Board                         | -   | -   | 105  | $^{\circ}\text{C/W}$ |
|                                         |               | P.C.Board mounted *                              |     |     | 80   |                      |

\* :Print Lands = 5x5 mm,Both Sides

21DQ03L OUTLINE DRAWING (Dimensions in mm)

