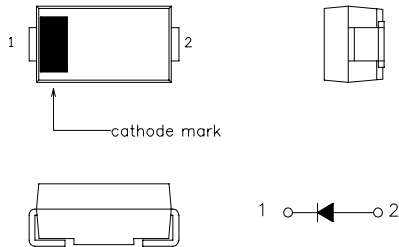


**SBD   Type : EC10QS04**

**FEATURES**

- \* Miniature Size, Surface Mount Device
- \* Low Forward Voltage Drop
- \* Low Power Loss, High Efficiency
- \* High Surge Capability
- \* 30 Volts through 100Volts Types Available
- \* Packaged in 12mm Tape and Reel
- \* Not Rolling During Assembly

OUTLINE DRAWING



Maximum Ratings

Approx Net Weight:0.06g

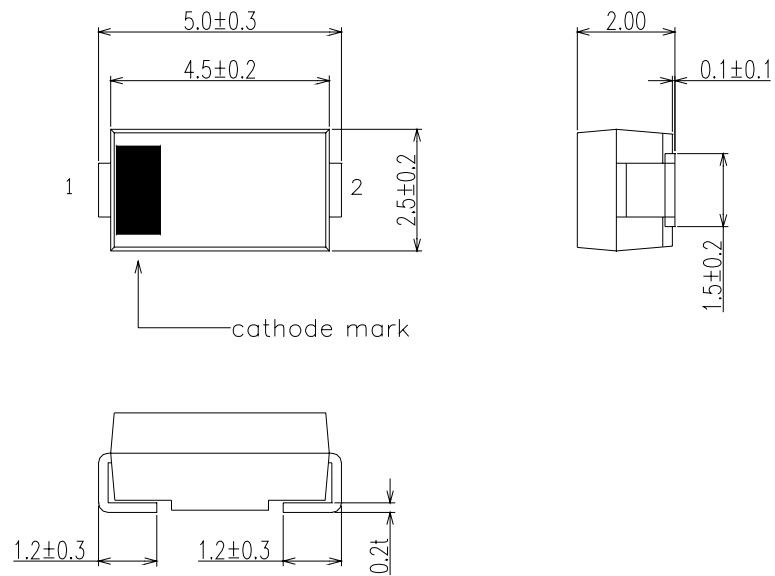
| Rating                              | Symbol              | EC10QS04    |                                           |                                    | Unit |
|-------------------------------------|---------------------|-------------|-------------------------------------------|------------------------------------|------|
| Repetitive Peak Reverse Voltage     | V <sub>RRM</sub>    | 40          |                                           |                                    | V    |
| Non-repetitive Peak Reverse Voltage | V <sub>RSM</sub>    | 45          |                                           |                                    |      |
| Average Rectified Output Current    | I <sub>O</sub>      | 0.91        | Ta=28 °C *1                               | 50Hz Half Sine Wave Resistive Load | A    |
|                                     |                     | 1.0         | Ta=53 °C *2                               |                                    |      |
| RMS Forward Current                 | I <sub>F(RMS)</sub> | 1.57        |                                           |                                    | A    |
| Surge Forward Current               | I <sub>FSM</sub>    | 20          | 50Hz 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 <sub>RM</sub>      | T <sub>j</sub> = 25°C, V <sub>RM</sub> = V <sub>RRM</sub> |    | -    | -    | 1.0  | mA    |
| Peak Forward Voltage | V <sub>FM</sub>      | T <sub>j</sub> = 25°C, I <sub>FM</sub> = 1.0A             |    | -    | -    | 0.55 | V     |
| Thermal Resistance   | R <sub>th(j-a)</sub> | Junction to Ambient                                       | *1 | -    | -    | 157  | °C /W |
|                      |                      |                                                           | *2 | -    | -    | 108  |       |

- \*1 Glass Epoxy Substrate Mounted
- \*2 Alumina Substrate Mounted
- Soldering Lands=2x2mm, Both Sides

# EC10QS04 OUTLINE DRAWING (Dimensions in mm)



SOLDERING PAD

