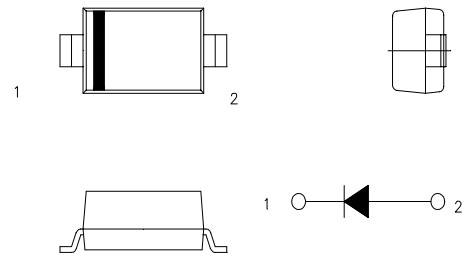


# SBD Type : EP05Q03L

## FEATURES

- \* EDEC SOD-123 Package
- \* Very Low profile 1.1mm Max
- \* Extremely Low Forward Voltage Drop
- \* Low Power Loss,High Efficiency
- \* High Surge Capability
- \* Low Thermal Resistance
- \* Packaged in 8mm Tape and Reel

## OUTLINE DRAWING



## Maximum Ratings

Approx Net Weight:0.011g

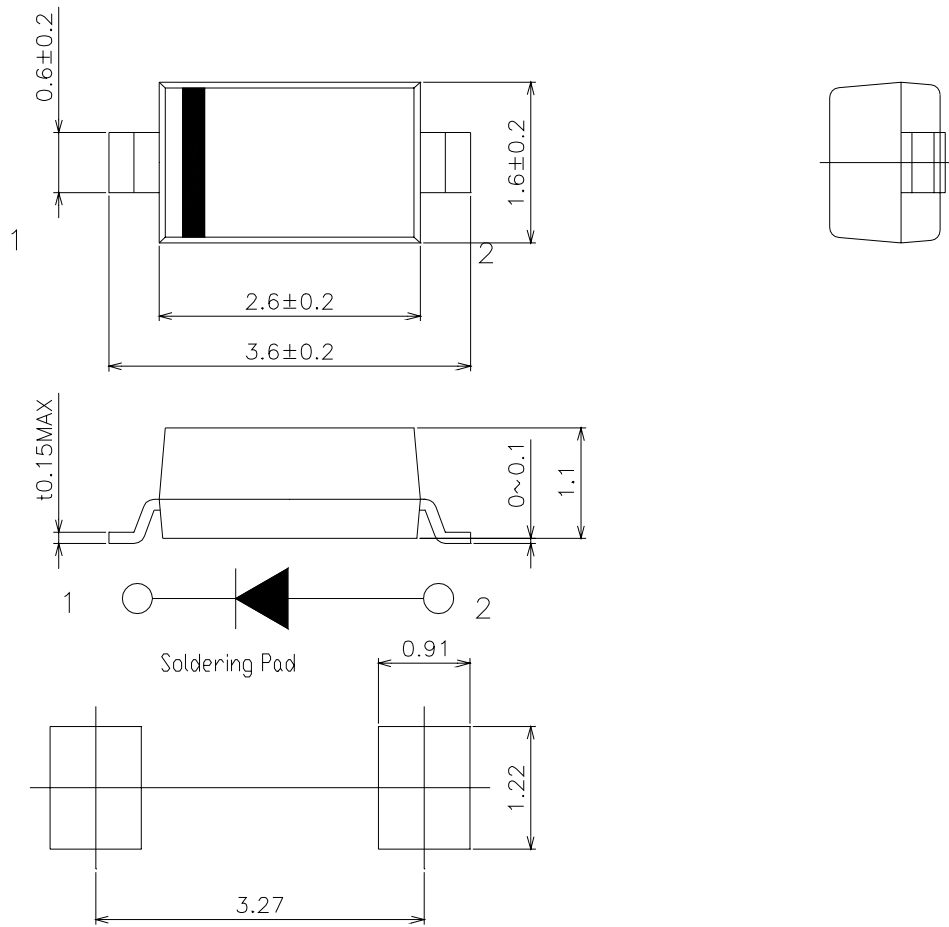
| Rating                              | Symbol       | EP05Q03L    |   | Unit               |
|-------------------------------------|--------------|-------------|---|--------------------|
| Repetitive Peak Reverse Voltage     | $V_{RRM}$    | 30          |   | V                  |
| Average Rectified Output Current    | $I_O$        | 0.49        | $T_a=25^{\circ}\text{C} * 1$ 50Hz Half Sine Wave, | A                  |
|                                     |              | 0.50        | $T_l=106^{\circ}\text{C}$ Resistive Load          |                    |
| RMS Forward Current                 | $I_{F(RMS)}$ | 0.785       |   | A                  |
| Surge Forward Current               | $I_{FSM}$    | 8           | 50Hz Half Sine Wave,1cycle<br>Non-repetitive      | A                  |
| Operating JunctionTemperature Range | $T_{jw}$     | -40 to +150 |   | $^{\circ}\text{C}$ |
| Storage Temperature Range           | $T_{stg}$    | -40 to +150 |   | $^{\circ}\text{C}$ |

## Electrical • Thermal Characteristics

| Characteristics      | Symbol        | Conditions                                    | Min. | Typ. | Max. | Unit                          |
|----------------------|---------------|---|------|------|------|-------------------------------|
| Peak Reverse Current | $I_{RM}$      | $T_j= 25^{\circ}\text{C}, V_{RM}= V_{RRM}$    | -    | -    | 200  | $\mu\text{A}$                 |
| Peak Forward Voltage | $V_{FM}$      | $T_j= 25^{\circ}\text{C}, I_{FM}=0.5\text{A}$ | -    | -    | 0.45 | V                             |
| Thermal Resistance   | $R_{th(j-a)}$ | Junction to Ambient *                         | -    | -    | 300  | $^{\circ}\text{C} / \text{W}$ |
|                      | $R_{th(j-l)}$ | Junction to Lead                              | -    | -    | 70   |                               |

\*1: Glass Epoxy Substrate Mounted (Soldering Lands=1x1mm,Both Sides)  
( $T_l$ : Lead Temperature)

EP05Q03L OUTLINE DRAWING (Dimensions in mm)



This datasheet has been downloaded from:

[www.DatasheetCatalog.com](http://www.DatasheetCatalog.com)

Datasheets for electronic components.