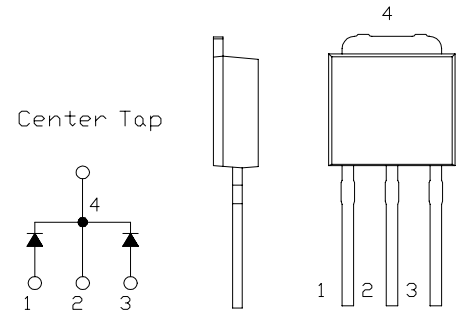


# SBD Type : EA20QC09

## OUTLINE DRAWING

### FEATURES

- \* TO-251AA Case
- \* Dual Diodes Cathode Common
- \* Low Forward Voltage drop
- \* Low Power Loss
- \* High Surge Capability
- \* 40 Volts thru 100 Volts Types Available



### Maximum Ratings

Approx Net Weight:0.35g

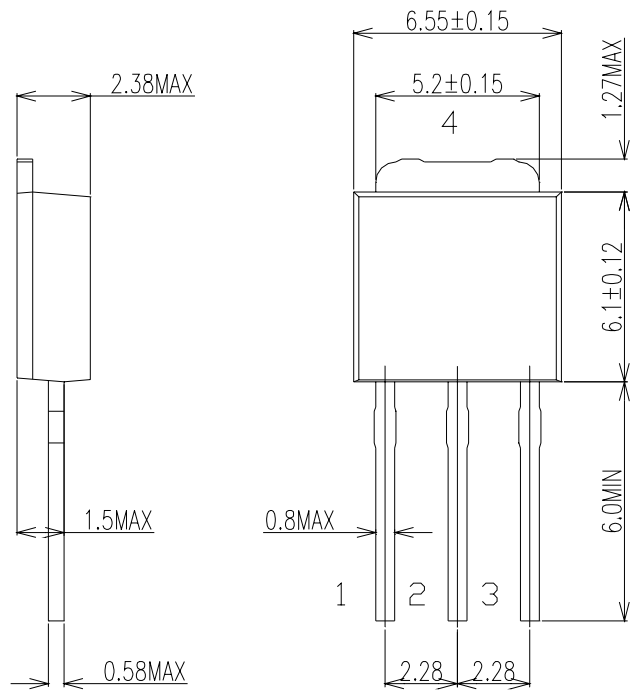
| Rating                              |                     | Symbol              | EA20QC09      |                                            |                                    | Unit |
|-------------------------------------|---------------------|---------------------|---------------|--------------------------------------------|------------------------------------|------|
| Repetitive Peak Reverse Voltage     |                     | V <sub>RRM</sub>    | 90            |                                            |                                    | V    |
| Average Rectified Output Current    | P.C.Board mounted * | I <sub>O</sub>      | 1.6           | Ta=36°C                                    | 50Hz Full Sine Wave Resistive Load | A    |
|                                     | -                   |                     | 2             | Tc=138°C                                   |                                    |      |
| RMS Forward Current                 |                     | I <sub>F(RMS)</sub> | 2.22          |                                            |                                    | A    |
| Surge Forward Current               |                     | I <sub>FSM</sub>    | 20            | 50Hz Full 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 |                     | $I_{RM}$      | $T_j=25^{\circ}\text{C}, V_{RM}=V_{RRM}$ per Arm    | -   | -   | 0.5  | mA                   |
| Peak Forward Voltage |                     | $V_{FM}$      | $T_j=25^{\circ}\text{C}, I_{FM}=1\text{ A}$ per Arm | -   | -   | 0.85 | V                    |
| Thermal Resistance   | Junction to Ambient | $R_{th(j-a)}$ | P.C.Board mounted *                                 | -   | -   | 80   | $^{\circ}\text{C/W}$ |
|                      | Junction to Case    | $R_{th(j-c)}$ | -                                                   | -   | -   | 6    | $^{\circ}\text{C/W}$ |

\* Print Land = 20x20 mm

EA20QC09 OUTLINE DRAWING (Dimensions in mm)



Center Tap

