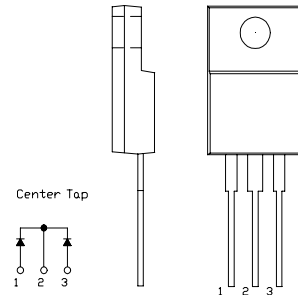


# SBD Type : FCH20A10

## OUTLINE DRAWING

### FEATURES

- \*TO-220AB Case
- \*Fully Molded
- \*Dual Diodes – Cathode Common
- \*Low Forward Voltage Drop
- \*High Surge Capability
- \*T<sub>j</sub>=150 °C operation



## Maximum Ratings

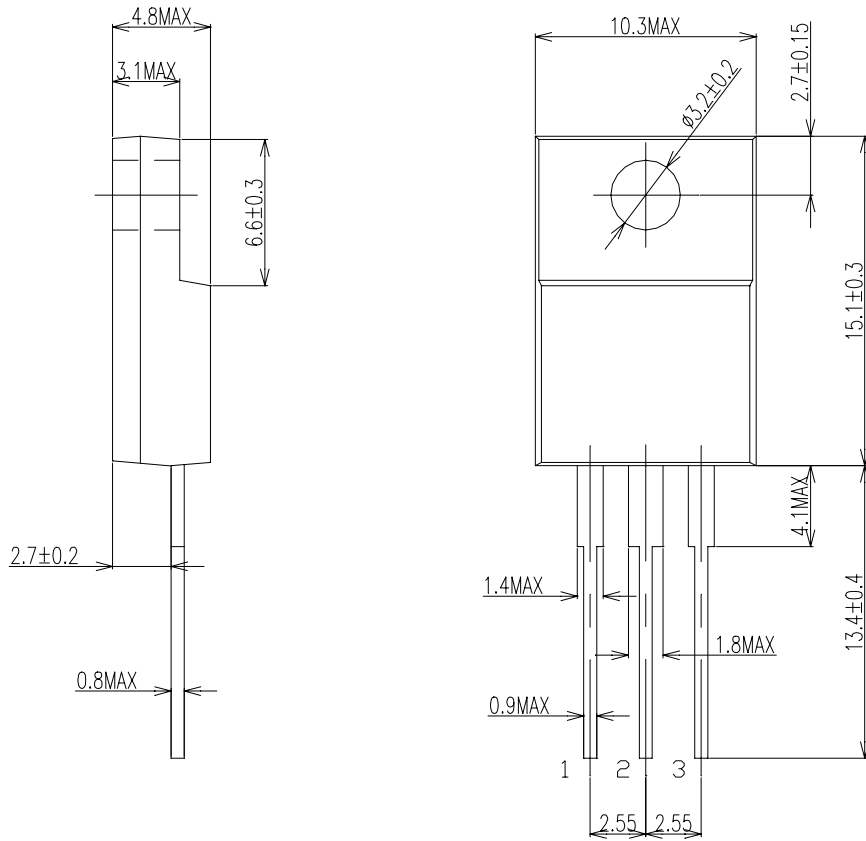
Approx Net Weight: 1.75g

| Rating                              | Symbol              | FCH20A10                 |  |                                     | Unit |
|-------------------------------------|---------------------|--------------------------|--|-------------------------------------|------|
| Repetitive Peak Reverse Voltage     | V <sub>RRM</sub>    | 100                      |  |                                     | V    |
| Average Rectified Output Current    | I <sub>O</sub>      | 20                       | T <sub>c</sub> =120°C                      | 50 Hz Full Sine Wave Resistive Load | A    |
| RMS Forward Current                 | I <sub>F(RMS)</sub> | 22.2                     |  |                                     | A    |
| Surge Forward Current               | I <sub>FSM</sub>    | 180                      | 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   |
| 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 <sub>RM</sub>      | T <sub>j</sub> = 25°C, V <sub>RM</sub> = V <sub>RRM</sub> per arm | -    | -    | 1    | mA   |
| Peak Forward Voltage | V <sub>FM</sub>      | T <sub>j</sub> = 25°C, I <sub>FM</sub> = 10 A per arm             | -    | -    | 0.88 | V    |
| Thermal Resistance   | R <sub>th(j-c)</sub> | Junction to Case  | -    | -    | 1.5  | °C/W |
|                      | R <sub>th(c-f)</sub> | Case to Fin   | -    | -    | 1.5  | °C/W |

FCH20A10 OUTLINE DRAWING (Dimensions in mm)



Center Tap

