

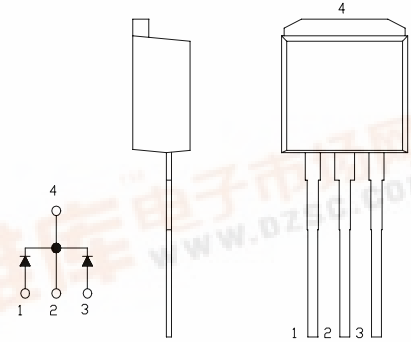


FRD Type : C16T20F-11A

OUTLINE DRAWING

FEATURES

- * **SQUARE-PAK** TO263AB Case (SMD)
- Packaged in 24mm Tape and Reel
- * Dual Diodes – Cathode Common
- * Ultra – Fast Recovery
- * Low Forward Voltage Drop
- * High Surge Capability
- * 200 Volts thru 600 Volts Types Available



Maximum Ratings

Approx Net Weight:1.4g

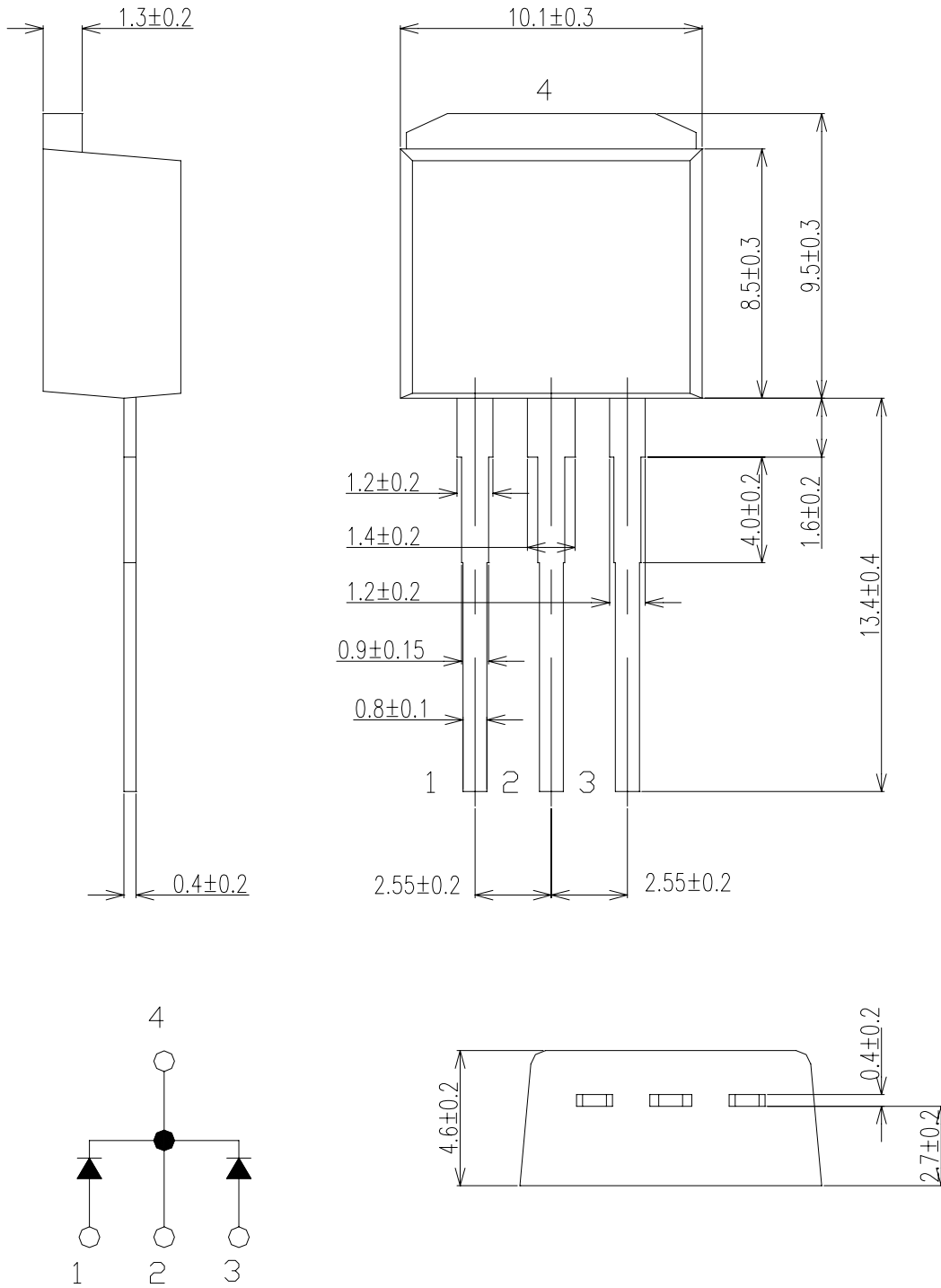
| Rating | Symbol | C16T20F-11A | | Unit |
|--------------------------------------|--------------|---------------|---|-------------|
| Repetitive Peak Reverse Voltage | V_{RRM} | 200 | | V |
| Non-repetitive Peak Reverse Voltage | V_{RSM} | 220 | | V |
| Average Rectified Output Current | I_O | 16 | $T_c=113^{\circ}C$ 50 Hz, Full Sine Wave Resistive Load | A |
| RMS Forward Current | $I_{F(RMS)}$ | 18 | | A |
| Surge Forward Current | I_{FSM} | 120 | 50 Hz Full Sine Wave, 1 cycle Non-repetitive | A |
| Operating Junction Temperature Range | T_{jw} | - 40 to + 150 | | $^{\circ}C$ |
| Storage Temperature Range | T_{stg} | - 40 to + 150 | | $^{\circ}C$ |

Electrical • Thermal Characteristics

| Characteristics | Symbol | Conditions | Min. | Typ. | Max. | Unit |
|-----------------------|---------------|--|------|------|------|---------------|
| Peak Reverse Current | I_{RM} | $T_j=25^{\circ}C, V_{RM}=V_{RRM}$ per Arm | - | - | 25 | μA |
| Peak Forward Voltage | V_{FM} | $T_j=25^{\circ}C, I_{FM}=8A$ per Arm | - | - | 0.98 | V |
| Reverse Recovery Time | t_{rr} | $I_{FM}= 8 A,$ $-di/dt= 50 A/\mu s, T_a= 25^{\circ}C$ | - | - | 35 | ns |
| Thermal Resistance | $R_{th(j-c)}$ | Junction to Case | - | - | 2 | $^{\circ}C/W$ |



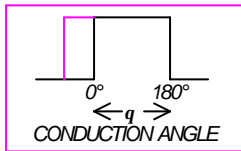
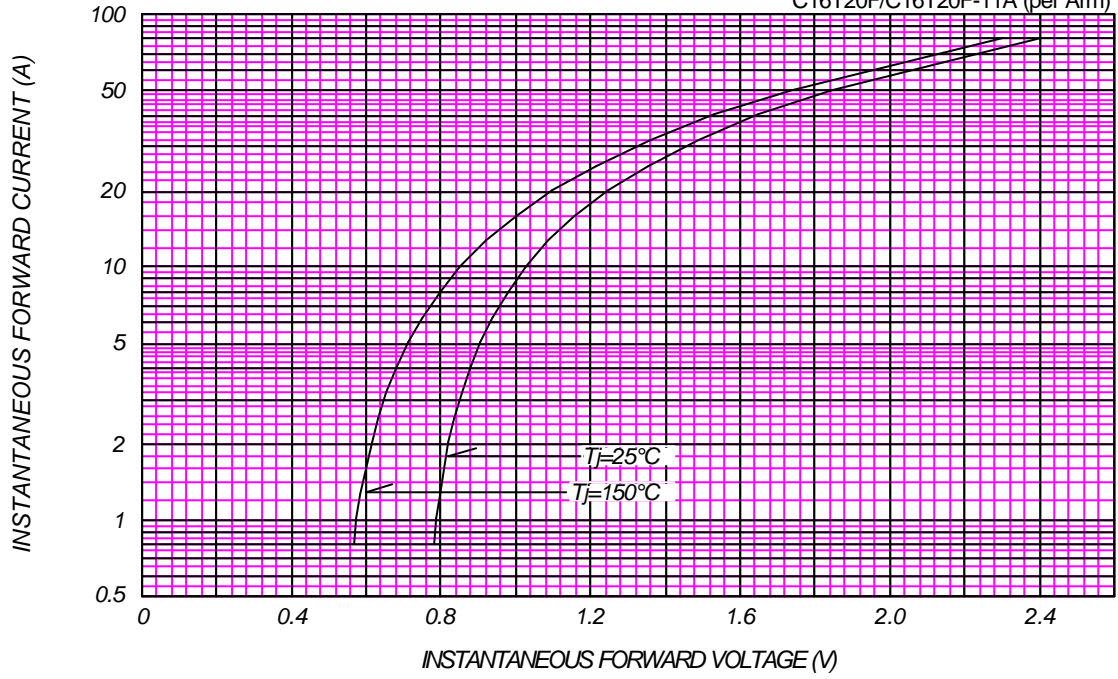
C_T_ 11A OUTLINE DRAWING (Dimensions in mm)



FORWARD CURRENT VS. VOLTAGE

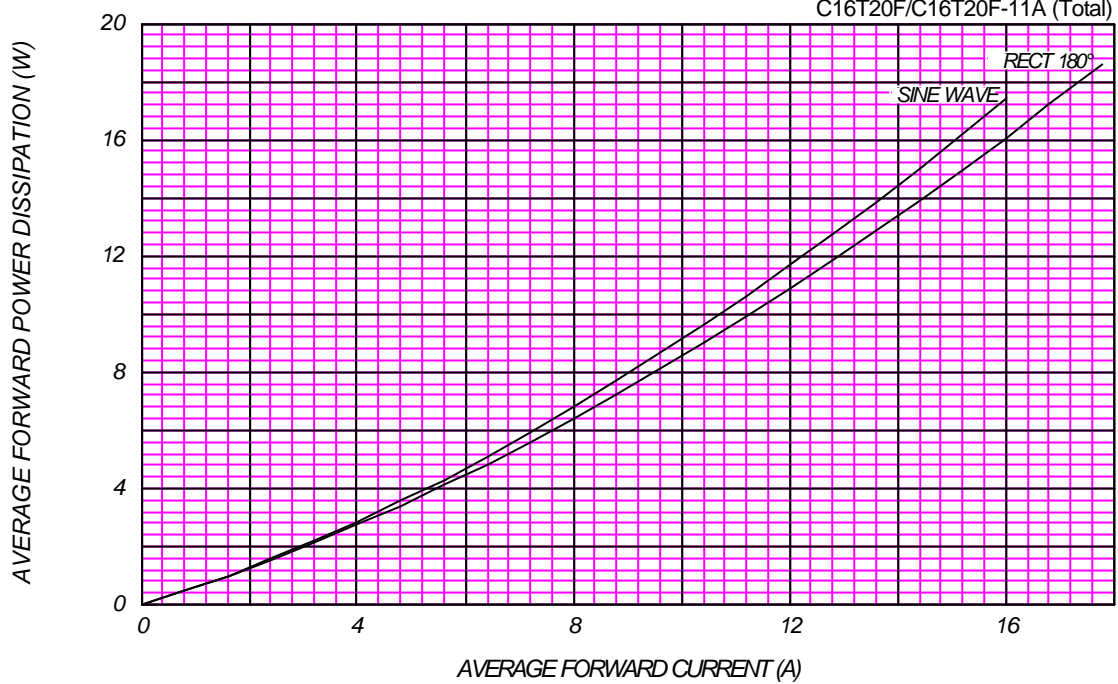
10ms Sine Wave Single Pulse

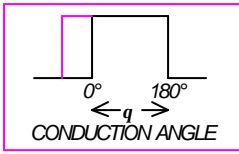
C16T20F/C16T20F-11A (per Arm)



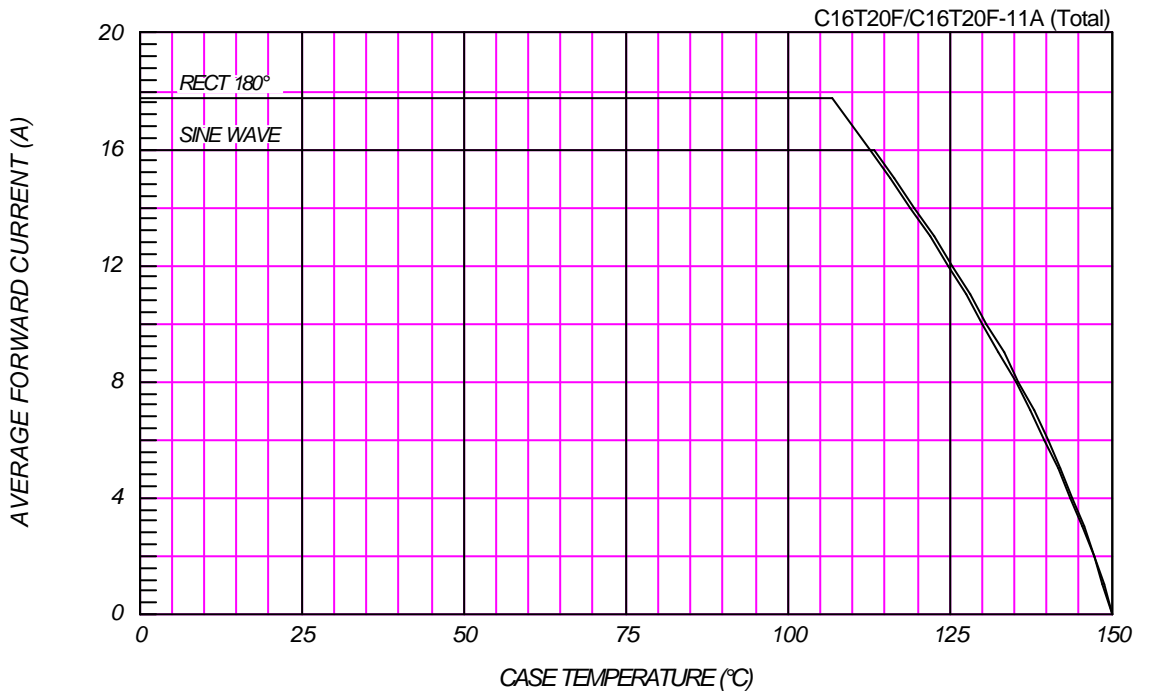
AVERAGE FORWARD POWER DISSIPATION

C16T20F/C16T20F-11A (Total)





AVERAGE FORWARD CURRENT VS. CASE TEMPERATURE



SURGE CURRENT RATINGS

f=50Hz, Sine Wave, Non-Repetitive, No Load

