

10A Avg.

400 Volts

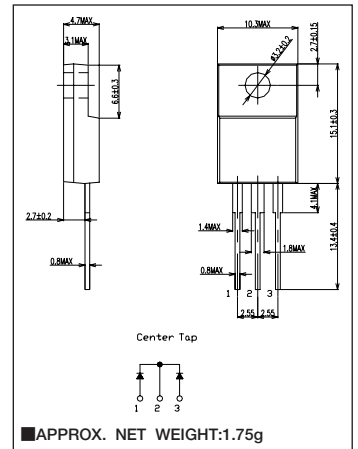
FRED

FCU10A40

■最大定格 Maximum Ratings

| Item   | Symbol       | Conditions   | Unit    |
|--|--------------|--|---------|
| くり返しピーク逆電圧<br>Repetitive Peak Reverse Voltage    | $V_{RRM}$    | 400  | V       |
| 平均整流電流<br>Average Rectified Forward Current      | $I_O$        | 50Hz、正弦全波通電抵抗負荷<br>50Hz Full Sine Wave Resistive Load                  | 10 A    |
| 実効順電流<br>R.M.S. Forward Current                  | $I_{F(RMS)}$ | 11.1   | A       |
| サーージ順電流<br>Surge Forward Current                 | $I_{FSM}$    | 80 50Hz正弦全波、1サイクル、非くり返し<br>50Hz Full Sine Wave, 1cycle, Non-repetitive | A       |
| 動作接合温度範囲<br>Operating Junction Temperature Range | $T_{jw}$     | -40~+150   | °C      |
| 保存温度範囲<br>Storage Temperature Range              | $T_{stg}$    | -40~+150   | °C      |
| 締付トルク<br>Mounting torque                         | $F_{tor}$    | 推奨値<br>Recommended Value   | 0.5 N·m |

■OUTLINE DRAWING(mm)



■電氣的・熱的特性 Electrical/Thermal Characteristics

| Item                           | Symbol        | Conditions  | Min. | Typ. | Max. | Unit          |
|--------------------------------|---------------|---|------|------|------|---------------|
| ピーク逆電流<br>Peak Reverse Current | $I_{RM}$      | $T_j=25^\circ\text{C}$ , $V_{RM}=V_{RRM}$ , 一素子あたり<br>Per Diode               | —    | —    | 30   | $\mu\text{A}$ |
| ピーク順電圧<br>Peak Forward Voltage | $V_{FM}$      | $T_j=25^\circ\text{C}$ , $I_{FM}=5\text{A}$ , 一素子あたり<br>Per Diode             | —    | 1.34 | 1.53 | V             |
| 逆回復時間<br>Reverse Recovery Time | $t_{rr}$      | $I_{FM}=5\text{A}$ , $-di/dt=50\text{A}/\mu\text{s}$ , $T_j=25^\circ\text{C}$ | —    | 22   | 32   | ns            |
| 熱抵抗<br>Thermal Resistance      | $R_{th(j-c)}$ | 接合部・ケース間<br>Junction to Case  | —    | —    | 3    | °C/W          |
|                                | $R_{th(c-f)}$ | ケース・フィン間<br>Case to Fin   | —    | —    | 1.5  | °C/W          |

■定格・特性曲線

