

10A Avg.

300 Volts

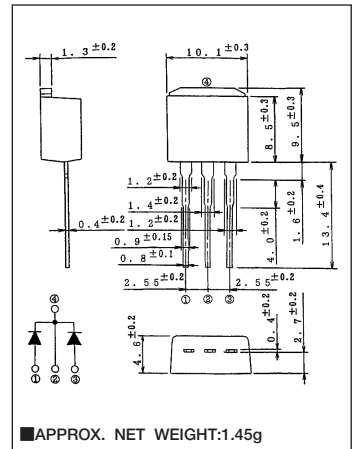
FRED

TCU10A30-11A

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    | $V_{RRM}$    | 300   | 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    |
| サージ順電流<br>Surge Forward Current                  | $I_{FSM}$    | 100 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   |

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 | $I_{RM}$      | $T_j=25^{\circ}C, V_{RM}=V_{RRM}$ , 一素子あたり<br>Per Diode | —    | —    | 25   | $\mu A$ |
| ピーク順電圧<br>Peak Forward Voltage | $V_{FM}$      | $T_j=25^{\circ}C, I_{FM}=5A$ , 一素子あたり<br>Per Diode      | —    | 1.12 | 1.30 | V       |
| 逆回復時間<br>Reverse Recovery Time | $t_{rr}$      | $I_{FM}=5A, -di/dt=50 A/\mu s, T_j=25^{\circ}C$         | —    | 19   | 30   | 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    |

定格・特性曲線

