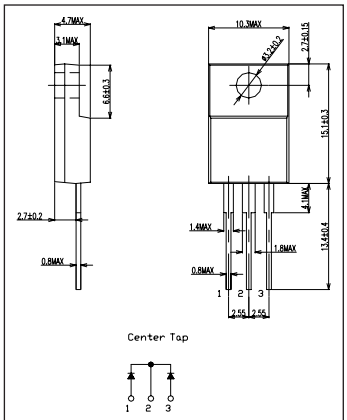
# 16A Avg. 400 Volts FRED FCF16A40

## ■最大定格 Maximum Ratings

| Item | Symbol | Conditions | | Unit |
|---|---|---|---|---|
| くり返しピーク逆電圧 Repetitive Peak Reverse Voltage | $V_{RRM}$ | 400 | | V |
| 非くり返しピーク逆電圧 Repetitive Peak Reverse Voltage | $V_{RSM}$ | 440 | | V |
| 平均整流電流 Average Rectified Forward Current | $I_O$ | 50Hz、正弦半波通電抵抗負荷 50Hz Half Sine Wave Resistive Load, Tc=109℃ | 16 | A |
| 実効順電流 R.M.S. Forward Current | $I_{F(RMS)}$ | 18 | | A |
| サージ順電流 Surge Forward Current | $I_{FSM}$ | 120 50Hz正弦半波，1サイクル，非くり返し 50Hz Half Sine Wave,1cycle, Non-repetitive | | A |
| 動作接合温度範囲 Operating Junction Temperature Range | $T_{jw}$ | −40～+150 | | ℃ |
| 保存温度範囲 Storage Temperature Range | $T_{stg}$ | −40～+150 | | ℃ |
| 締付トルク Mounting torque | $F_{tor}$ | 推奨値 Recommended Value | 0.5 | N·m |

## ■OUTLINE DRAWING(mm)




■APPROX. NET WEIGHT:1.75g

## ■電気的・熱的特性 Electrical/Thermal Characteristics

| Item | Symbol | Conditions | Min. | Typ. | Max. | Unit |
|---|---|---|---|---|---|---|
| ピーク逆電流 Peak Reverse Current | $I_{RM}$ | $T_j$=25℃, $V_{RM}=V_{RRM}$ | — | — | 30 | μA |
| ピーク順電圧 Peak Forward Voltage | $V_{FM}$ | $T_j$=25℃, $I_{FM}$=8A | — | — | 1.25 | V |
| 逆回復時間 Reverse Recovery Time | trr | $I_{FM}$=8A, -di/dt=50 A/μs, $T_j$=25℃ | — | — | 45 | ns |
| 熱抵抗 Thermal Resistance | $R_{th(j-c)}$ | 接合部·ケース間 Junction to Case | — | — | 2 | ℃/W |
| | $R_{th(c-f)}$ | ケース·フィン間 Case to Fin | — | — | 1.5 | ℃/W |

## ■定格・特性曲線

FIG.1
順電圧特性
FORWARD CURRENT VS. VOLTAGE

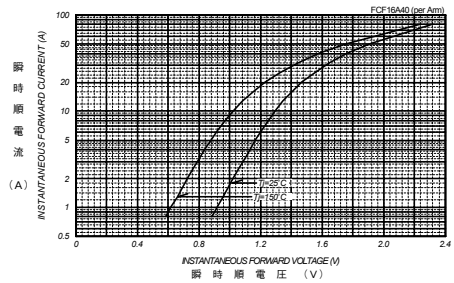



FIG.2
平均順電力損失特性
AVERAGE FORWARD POWER DISSIPATION

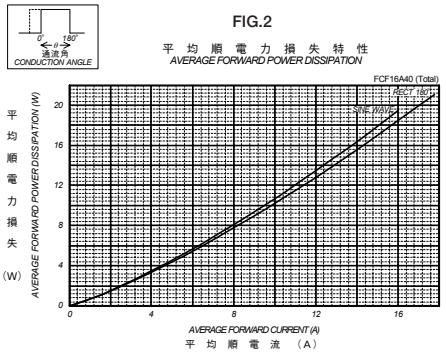



FIG.3
平均順電流ーケース温度定格
AVERAGE FORWARD CURRENT VS. CASE TEMPERATURE

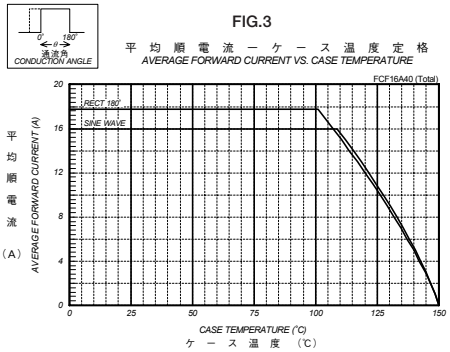



FIG.4
サージ順電流定格
SURGE CURRENT RATINGS

