

## 6A Avg.

## 400 Volts

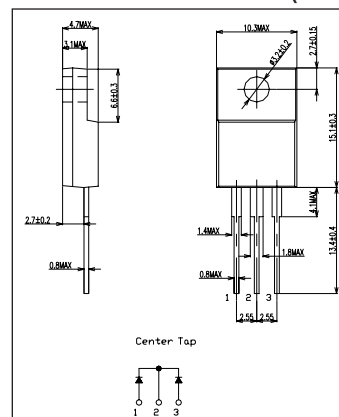
**FRED**

# FCF06A40

## ■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                  |
| 非くり返しピーク逆電圧<br>Non-repetitive Peak Reverse Voltage | $V_{RSM}$         | 440                                                   |                                                                   |   | 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 | $T_c=118^{\circ}\text{C}$                                         | 6 | A                  |
| 実効順電流<br>R.M.S. Forward Current                    | $I_F(\text{RMS})$ | 6.7                                                   |                                                                   |   | A                  |
| サージ順電流<br>Surge Forward Current                    | $I_{FSM}$         | 60                                                    | 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                                              |                                                                   |   | $^{\circ}\text{C}$ |
| 保存温度範囲<br>Storage Temperature Range                | $T_{stg}$         | -40～+150                                              |                                                                   |   | $^{\circ}\text{C}$ |
| 締付トルク<br>Mounting torque                           | $F_{tor}$         | 推奨値<br>Recommended Value                              |                                                                   |   | 0.5<br>N・m         |

■ **OUTLINE DRAWING(mm)**



■ APPROX. NET WEIGHT: 1.75g

## ■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 | $I_{RM}$      | $T_j=25^{\circ}\text{C}$ , $V_{RM}=V_{RRM}$ ,<br>一素子あたり<br>Per Diode             | —    | —    | 20   | $\mu\text{A}$               |
| ピーク順電圧<br>Peak Forward Voltage | $V_{FM}$      | $T_j=25^{\circ}\text{C}$ , $I_{FM}=3\text{A}$ ,<br>一素子あたり<br>Per Diode           | —    | —    | 1.25 | V                           |
| 逆回復時間<br>Reverse Recovery Time | $\text{trr}$  | $I_{FM}=3\text{A}$ , $-di/dt=50\text{ A}/\mu\text{s}$ , $T_j=25^{\circ}\text{C}$ | —    | —    | 30   | ns                          |
| 熱抵抗<br>Thermal Resistance      | $R_{th(j-c)}$ | 接合部・ケース間<br>Junction to Case                                                     | —    | —    | 4    | $^{\circ}\text{C}/\text{W}$ |
|                                | $R_{th(c-f)}$ | ケース・フィン間<br>Case to Fin                                                          | —    | —    | 1.5  | $^{\circ}\text{C}/\text{W}$ |

### ■定格・特性曲線

FIG.1

順電壓特性  
FORWARD CURRENT VS. VOLTAGE

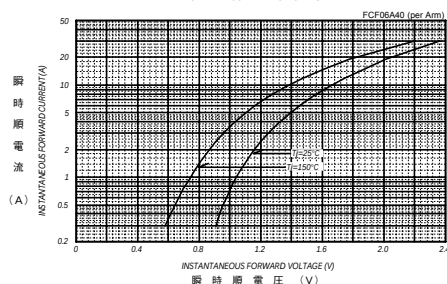


FIG.2

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

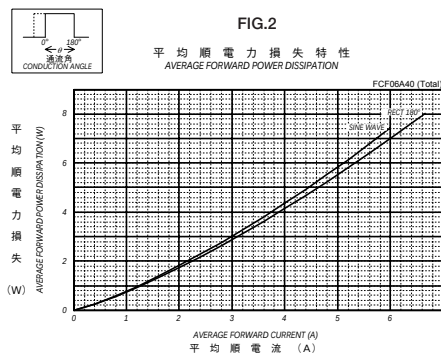


FIG.3

平均順電流－ケース温度定格  
AVERAGE FORWARD CURRENT VS. CASE TEMPERATURE

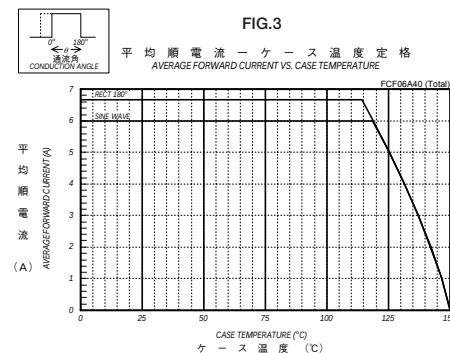


FIG.4

サージ順電流定格  
SURGE CURRENT RATINGS

