

5A Avg.

400 Volts

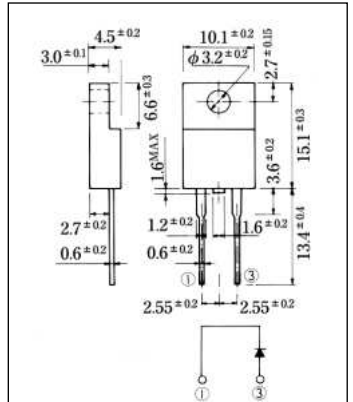
FRED

FSF05A40

■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 | $T_c=118^\circ\text{C}$ | 5 | A |
| 実効順電流 R.M.S. Forward Current | $I_F(\text{RMS})$ | 7.85 | | | A |
| サージ順電流 Surge Forward Current | I_{FSM} | 80 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 | | | $^\circ\text{C}$ |
| 保存温度範囲 Storage Temperature Range | T_{stg} | -40~+150 | | | $^\circ\text{C}$ |
| 締付トルク Mounting torque | F_{tor} | 推奨値 Recommended Value | | 0.5 | N·m |

■OUTLINE DRAWING(mm)



■APPROX. NET WEIGHT:1.7g

■電氣的・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} | $T_j=25^\circ\text{C}, V_{RM}=V_{RRM}$ | — | — | 30 | μA |
| ピーク順電圧 Peak Forward Voltage | V_{FM} | $T_j=25^\circ\text{C}, I_{FM}=5\text{A}$ | — | — | 1.25 | V |
| 逆回復時間 Reverse Recovery Time | t_{rr} | $I_{FM}=5\text{A}, -di/dt=50\text{A}/\mu\text{s}, T_j=25^\circ\text{C}$ | — | — | 45 | ns |
| 熱抵抗 Thermal Resistance | $R_{th(j-c)}$ | 接合部・ケース間 Junction to Case | — | — | 5 | $^\circ\text{C}/\text{W}$ |
| | $R_{th(c-f)}$ | ケース・フィン間 Case to Fin | — | — | 1.5 | $^\circ\text{C}/\text{W}$ |

■定格・特性曲線

FIG.1

順電圧特性
FORWARD CURRENT VS. VOLTAGE

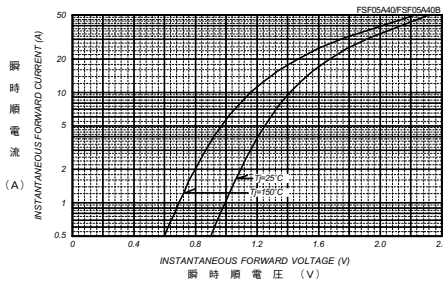


FIG.2

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

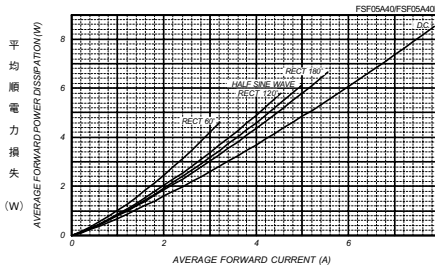


FIG.3

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

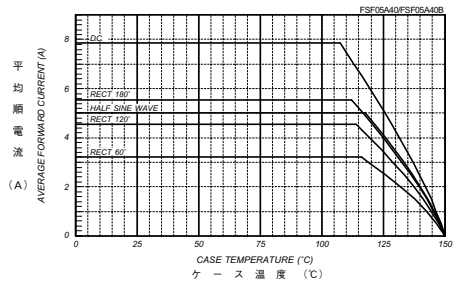


FIG.4

サージ順電流定格
SURGE CURRENT RATINGS

$f=50\text{Hz}$, Half Sine Wave, Non-Repetitive, No Load

