

10A Avg.

600 Volts

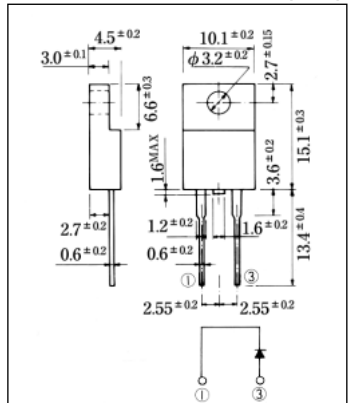
FRED

FSU10B60

■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} | 600 | 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 | $T_c=50^{\circ}C$ 10 A |
| 実効順電流 R.M.S. Forward Current | $I_{F(RMS)}$ | 15.7 | A |
| サーージ順電流 Surge Forward Current | I_{FSM} | 100 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 | $^{\circ}C$ |
| 保存温度範囲 Storage Temperature Range | T_{stg} | -40~+150 | $^{\circ}C$ |
| 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} | $T_j=25^{\circ}C, V_{RM}=V_{RRM}$ | — | — | 30 | μA |
| ピーク順電圧 Peak Forward Voltage | V_{FM} | $T_j=25^{\circ}C, I_{FM}=10A$ | — | 2.3 | 2.7 | V |
| 逆回復時間 Reverse Recovery Time | t_{rr} | $I_{FM}=10A, -di/dt=50 A/\mu s, T_j=25^{\circ}C$ | — | 25 | 40 | ns |
| 熱抵抗 Thermal Resistance | $R_{th(j-c)}$ | 接合部・ケース間 Junction to Case | — | — | 4 | $^{\circ}C/W$ |
| | $R_{th(c-f)}$ | ケース・フィン間 Case to Fin | — | — | 1.5 | $^{\circ}C/W$ |

■定格・特性曲線

FIG.1

順電圧特性
FORWARD CURRENT VS. VOLTAGE

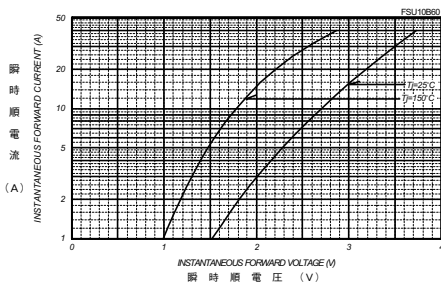


FIG.2

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

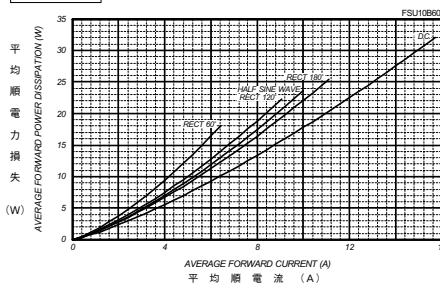


FIG.3

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

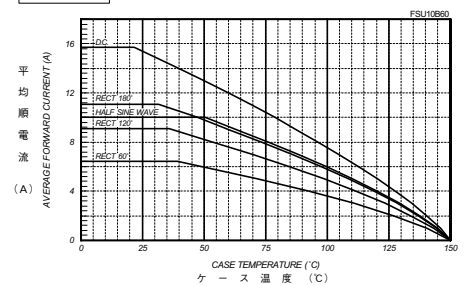


FIG.4

サーージ順電流定格
SURGE CURRENT RATINGS

1/50Hz Sine Wave, Non-Repetitive, No Load

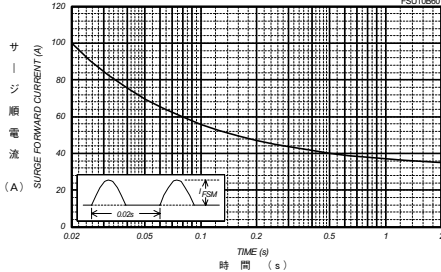


FIG.5

サーージ実効順電流定格
RMS SURGE CURRENT RATINGS

Ta=40°C, Non-Repetitive, No Load

