

10A Avg.

60 Volts

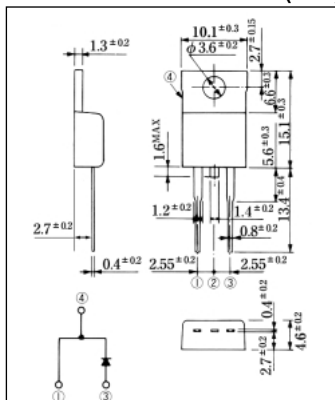
SBD

GSQ10A06

■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      | $V_{RRM}$  | 60                                                                        | V       |
| 非くり返しピーク逆電圧<br>Non-repetitive Peak Reverse Voltage | $V_{RSM}$  | 65                                                                        | V       |
| 平均整流電流<br>Average Rectified Forward Current        | $I_O$      | 50Hz, 正弦半波通電抵抗負荷<br>50Hz Half Sine Wave Resistive Load                    | 10      |
| 実効順電流<br>R.M.S. Forward Current                    | $I_F(RMS)$ | 15.7                                                                      | A       |
| サーージ順電流<br>Surge Forward Current                   | $I_{FSM}$  | 150 50Hz正弦半波, 1サイクル, 非くり返し<br>50Hz Half 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      |
| 締付トルク<br>Mounting torque                           | $F_{tor}$  | 推奨値<br>Recommended Value                                                  | 0.5 N·m |

■OUTLINE DRAWING(mm)



■APPROX. NET WEIGHT:1.85 g

■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 | $I_{RM}$      | $T_j=25^{\circ}C, V_{RM}=V_{RRM}$ | —    | —    | 10   | mA   |
| ピーク順電圧<br>Peak Forward Voltage | $V_{FM}$      | $T_j=25^{\circ}C, I_{FM}=10A$     | —    | —    | 0.67 | V    |
| 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

FIG.1

順電圧特性  
FORWARD CURRENT VS. VOLTAGE

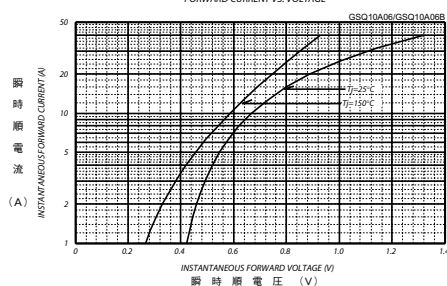


FIG.2

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

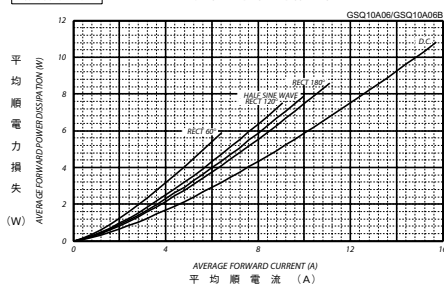


FIG.3

ピーク逆電流 - ピーク逆電圧特性  
PEAK REVERSE CURRENT VS. PEAK REVERSE VOLTAGE

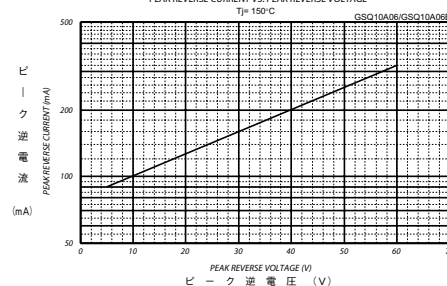


FIG.4

平均逆電力損失  
AVERAGE REVERSE POWER DISSIPATION

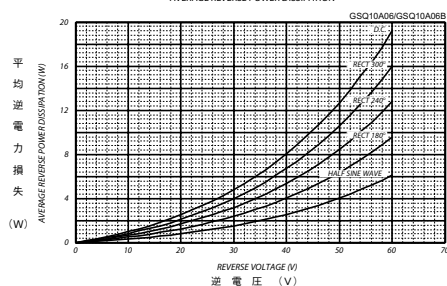


FIG.5

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

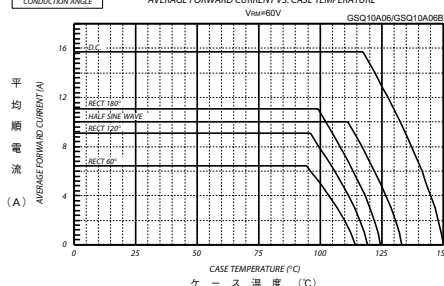


FIG.6

サーージ順電流定格  
SURGE CURRENT RATINGS

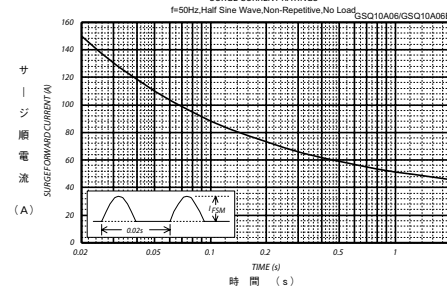


FIG.7

接合容量特性  
JUNCTION CAPACITANCE VS. REVERSE VOLTAGE

