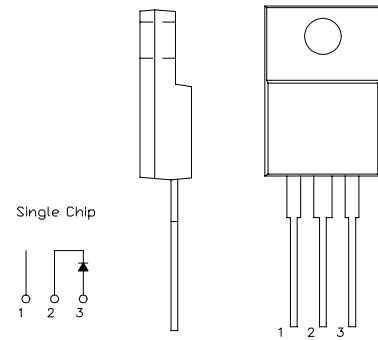


SBD Type : FSQ10A06B

OUTLINE DRAWING

構造 : ショトキバリアダイオード (S B D)
 Construction: Schottky Barrier Diode

用途 : 高周波整流用
 Application : High Frequency Rectification



最大定格 / Maximum Ratings

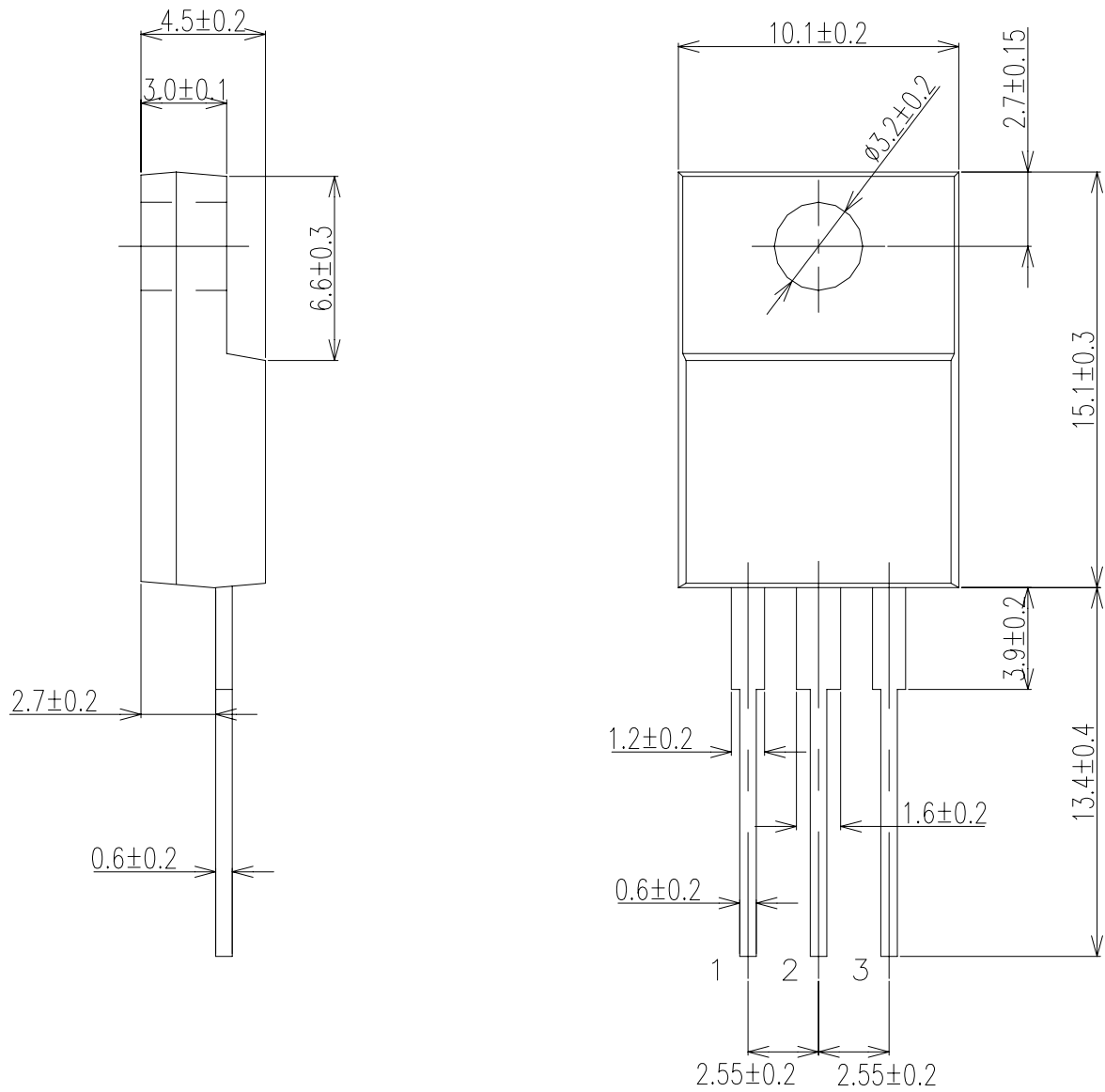
Approx Net Weight: 1.75g

| Rating | Symbol | FSQ10A06B | | | Unit |
|--|--------------|------------------------------|--|---|------|
| くり返しピーク逆電圧 Repetitive Peak Reverse Voltage | V_{RRM} | 60 | | | V |
| 非くり返しピーク逆電圧 Non-repetitive Peak Reverse Voltage | V_{RSM} | 65 | | | V |
| 平均整流電流 Average Rectified Output Current | I_O | 10 | $T_c=111$ | 50 Hz、正弦半波通電抵抗負荷 Half Sine Wave, Resistive Load | A |
| 実効順電流 RMS Forward Current | $I_{F(RMS)}$ | 15.7 | | | A |
| サージ順電流 Surge Forward Current | I_{FSM} | 150 | 50 Hz 正弦半波, 1サイクル, 非くり返し 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 | | | |
| 締付けトルク Mounting torque | F_{tor} | (推奨値 recommended torque=0.5) | | | N·m |

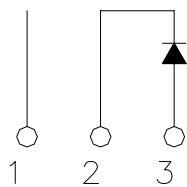
電氣的・熱的特性 / Electrical · Thermal Characteristics

| Characteristics | Symbol | Conditions | Min. | Typ. | Max. | Unit |
|--------------------------------|------------------------------|---------------------------------|------|------|------|------|
| ピーク逆電流 Peak Reverse Current | I_{RM} | $T_j = 25$, $V_{RM} = V_{RRM}$ | - | - | 10 | mA |
| ピーク順電圧 Peak Forward Voltage | V_{FM} | $T_j = 25$, $I_{FM} = 10$ A | - | - | 0.67 | V |
| 熱抵抗 Thermal Resistance | 接合部・ケース間 Junction to Case | $R_{th(j-c)}$ Junction to Case | - | - | 3 | /W |
| | ケース・フィン間 Case to Fin | $R_{th(c-f)}$ Case to Fin | - | - | 1.5 | /W |

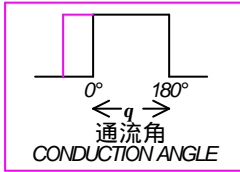
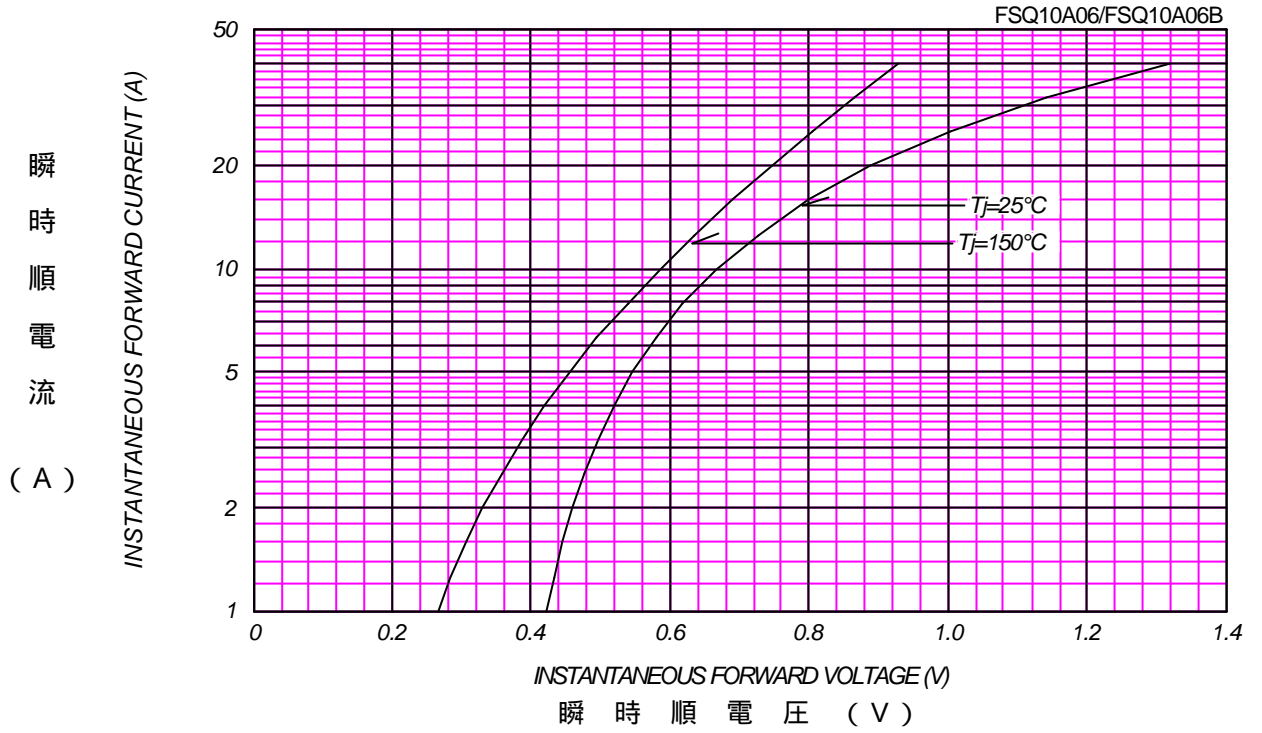
F S Q_A_B外形図 (mm)



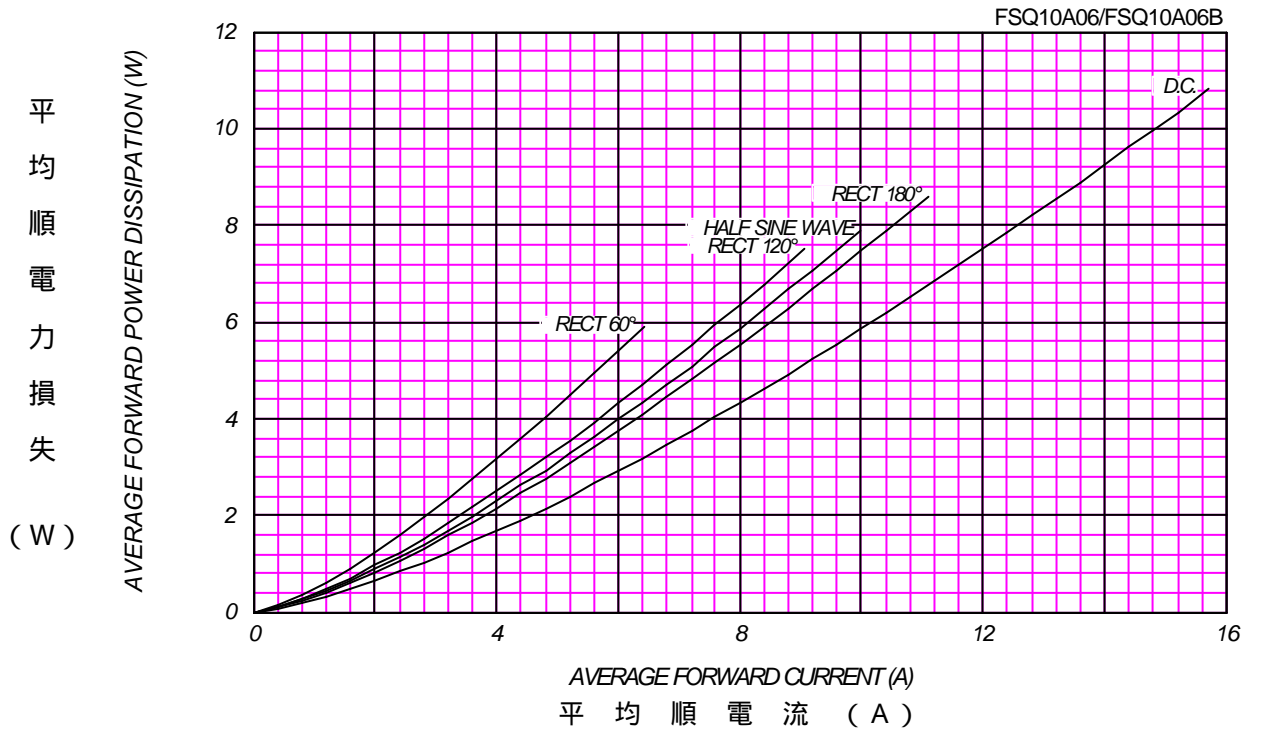
Single Chip



順電压特性
FORWARD CURRENT VS. VOLTAGE

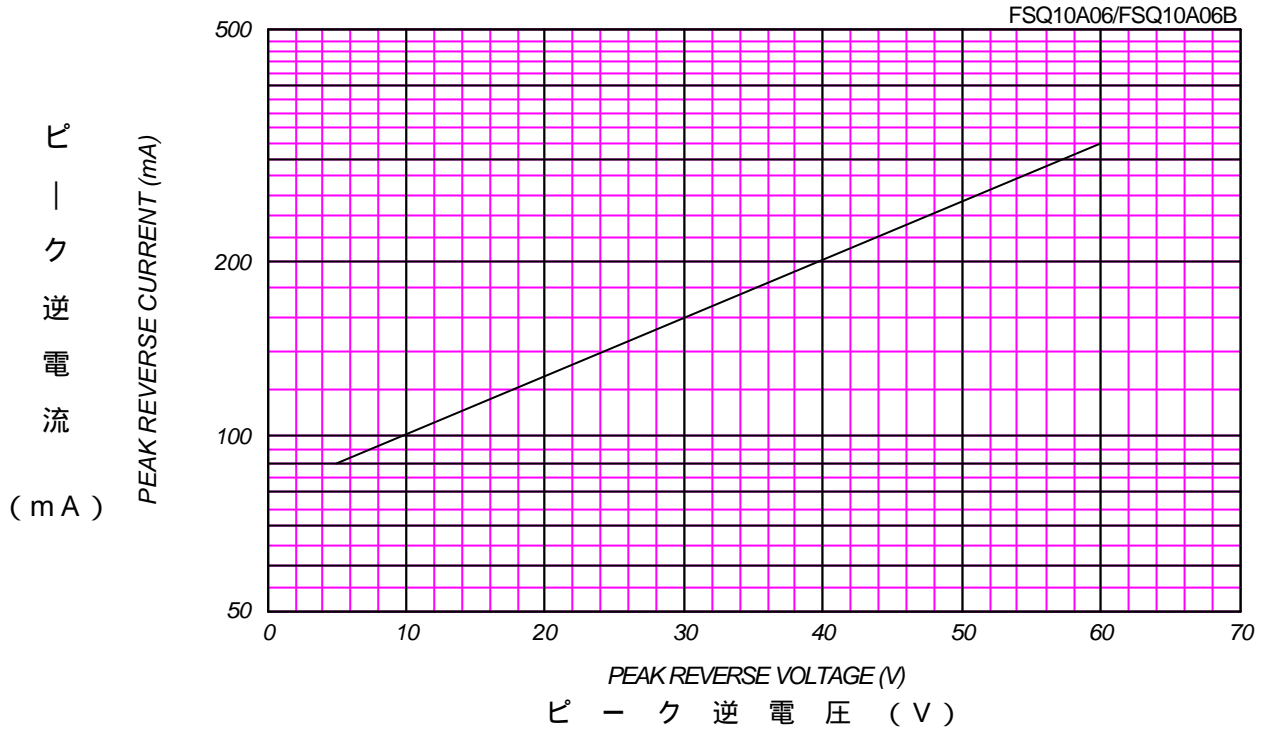


平均順電力損失特性
AVERAGE FORWARD POWER DISSIPATION

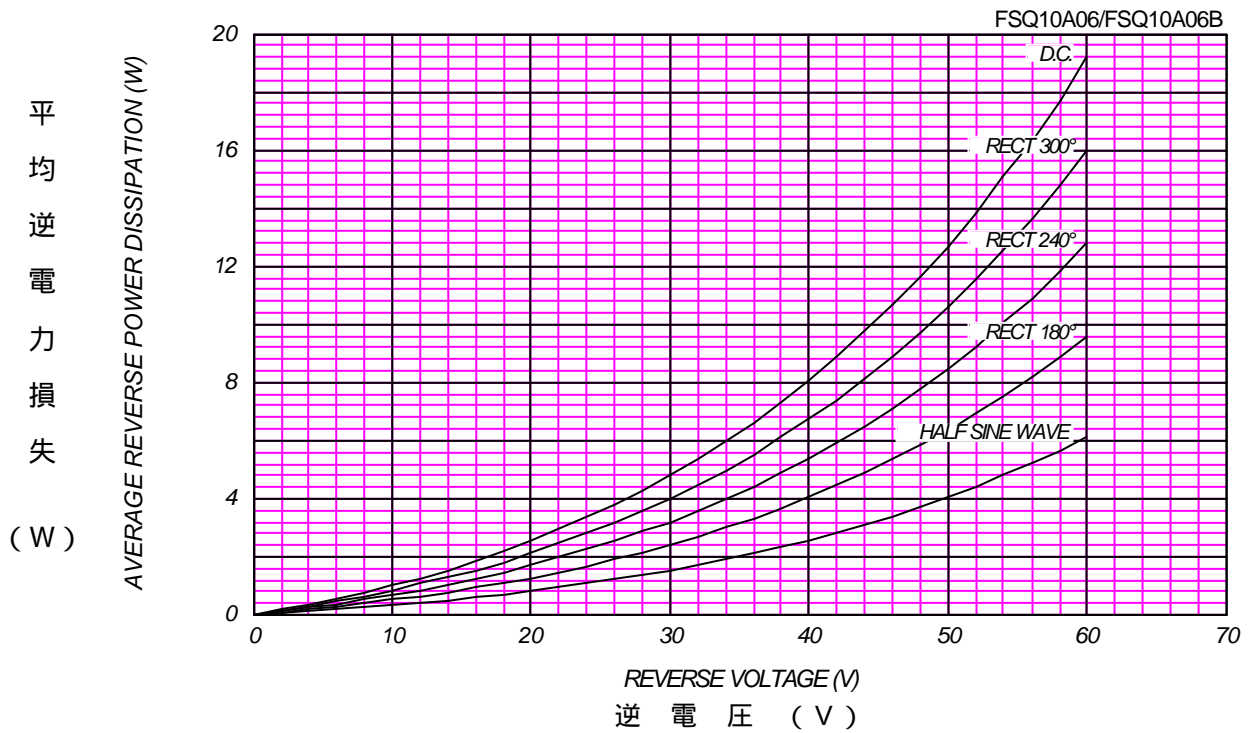


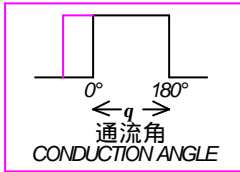
ピーク逆電流 - ピーク逆電圧特性
 PEAK REVERSE CURRENT VS. PEAK REVERSE VOLTAGE

T_j = 150 °C



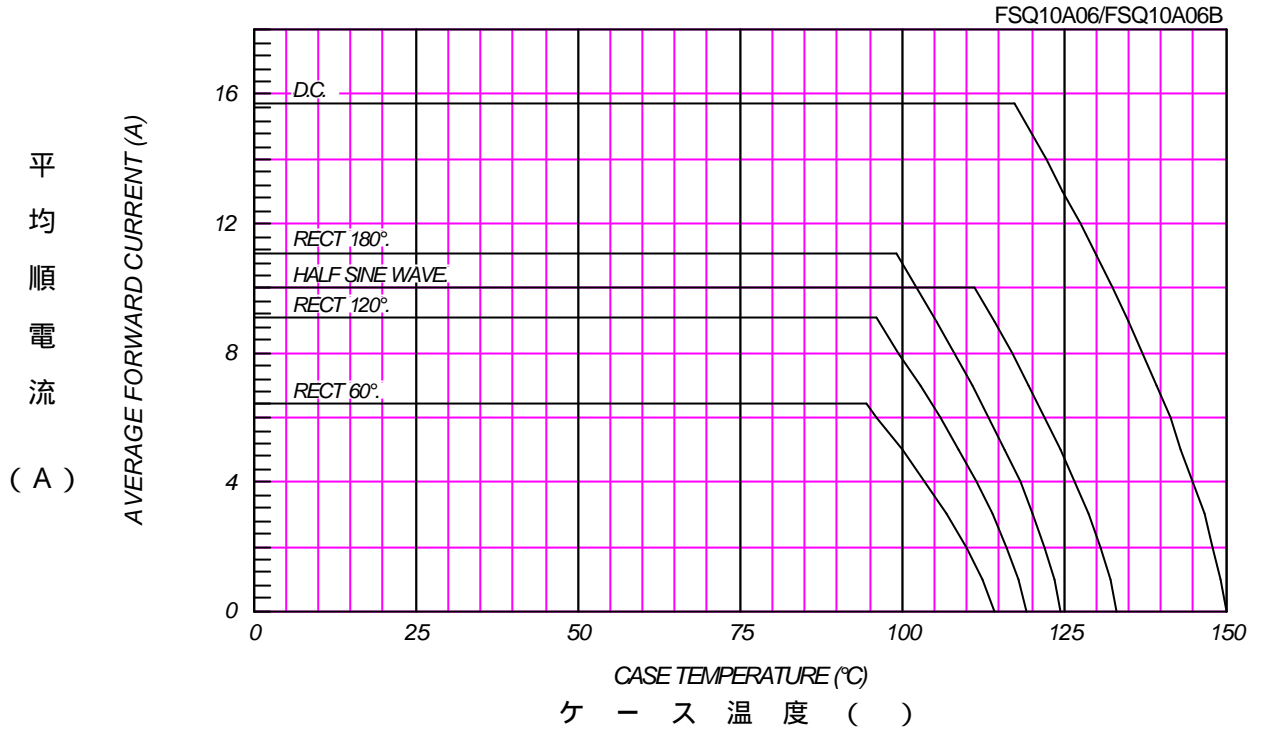
平均逆電力損失
 AVERAGE REVERSE POWER DISSIPATION





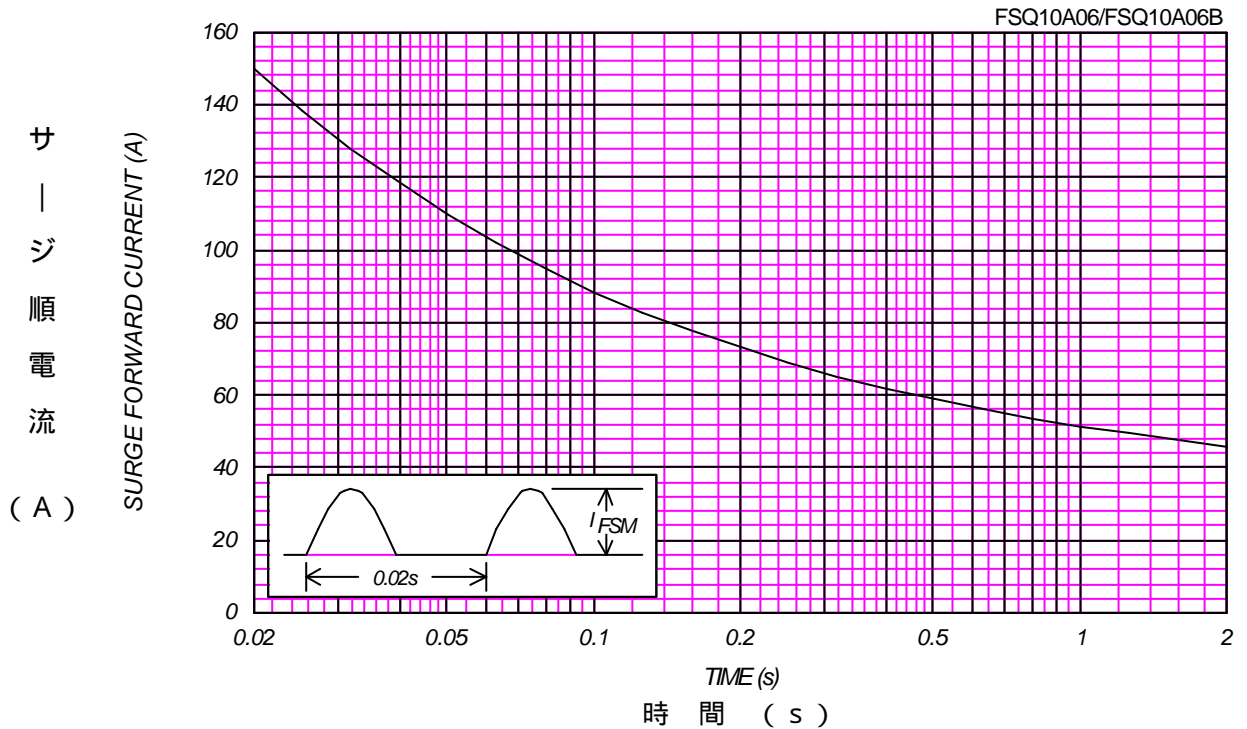
平均順電流 - ケース温度定格
AVERAGE FORWARD CURRENT VS. CASE TEMPERATURE

$V_{RM}=60V$



サージ順電流定格
SURGE CURRENT RATINGS

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



接合容量特性
JUNCTION CAPACITANCE VS. REVERSE VOLTAGE

$T_j=25^\circ\text{C}$, $V_m=20\text{mV}_{\text{RMS}}$, $f=100\text{kHz}$, Typical Value

