

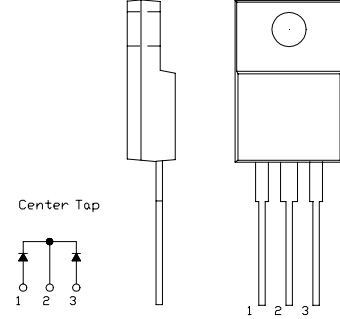
6A 100V

SBD Type : **FCH06A10**

OUTLINE DRAWING

構造 : ショットキーバリアダイオード(SBD)
 Construction: Schottky barrier Diode
 カソード コモン型

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



最大定格 / Maximum Ratings

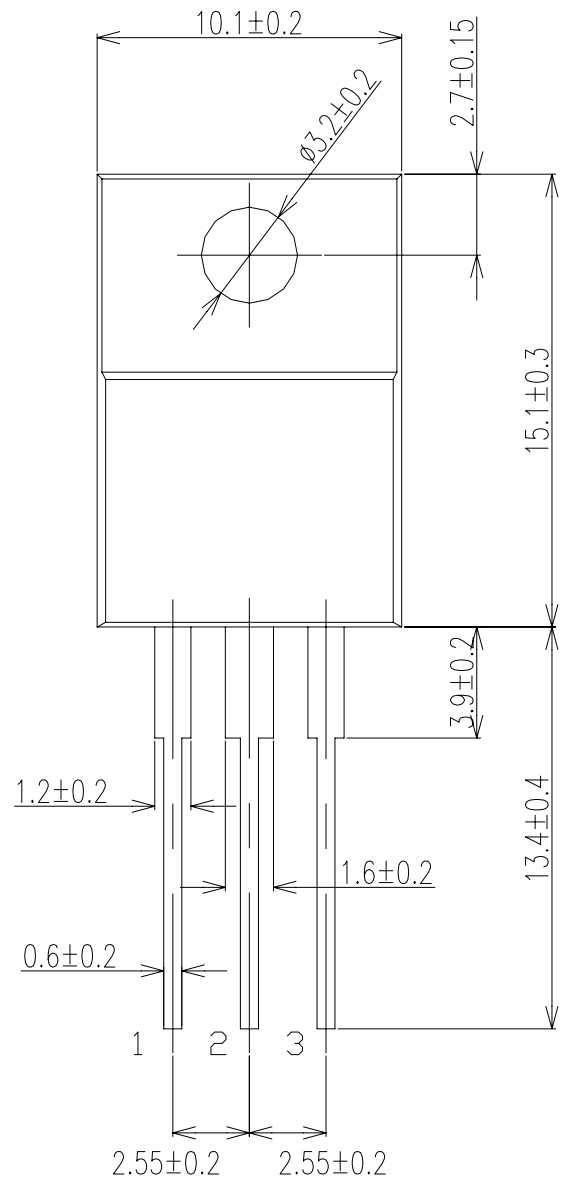
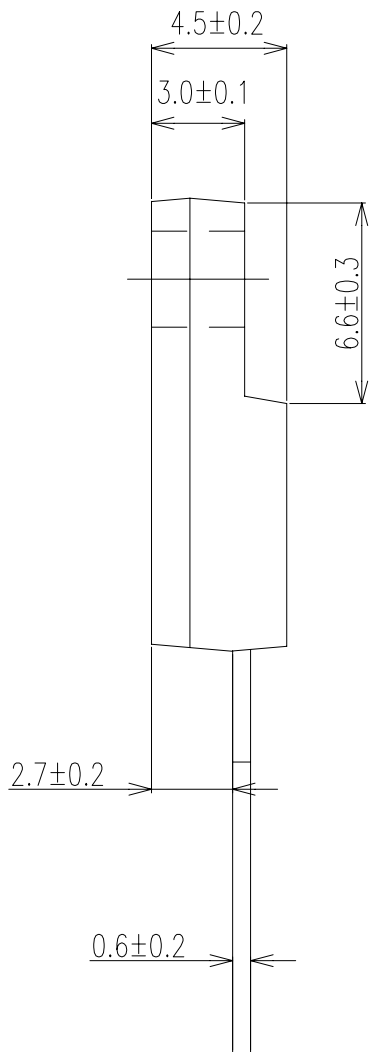
Approx Net Weight:1.75g

| Rating | Symbol | FCH06A10 | | Unit |
|--|--------------|--------------|--|------|
| くり返しピーク逆電圧 Repetitive Peak Reverse Voltage | V_{RRM} | 100 | | V |
| 平均整流電流 Average Rectified Output Current | I_O | 6 | $T_c=121$ 50 Hz, 正弦全波通電、抵抗負荷 Full Sine Wave Resistive Load | A |
| 実効順電流 RMS Forward Current | $I_{F(RMS)}$ | 6.6 | | A |
| サージ順電流 Surge Forward Current | I_{FSM} | 80 | 50 Hz 正弦全波, 1サイクル, 非くり返し Full 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 | | |
| 締め付けトルク Mounting torque | F_{tor} | 0.5 | 推奨値 Recommended value | N·m |

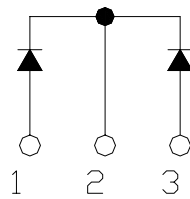
電氣的・熱的特性 / Electrical · Thermal Characteristics

| Characteristics | Symbol | Conditions | Min | Typ | Max. | Unit |
|--------------------------------|---------------|---------------------------------------|-----|-----|------|------|
| ピーク逆電流 Peak Reverse Current | I_{RM} | $T_j=25$, $V_{RM}=V_{RRM}$ per Diode | - | - | 1 | mA |
| ピーク順電圧 Peak Forward Voltage | V_{FM} | $T_j=25$, $I_{FM}= 3A$ per Diode | - | - | 0.85 | V |
| 熱抵抗 Thermal Resistance | $R_{th(j-c)}$ | 接合部・ケース間 Junction to Case | - | - | 5 | /W |
| | $R_{th(c-f)}$ | ケース・フィン間 Case to Fin | - | - | 1.5 | |

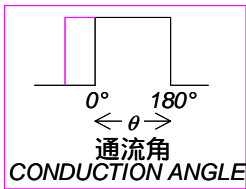
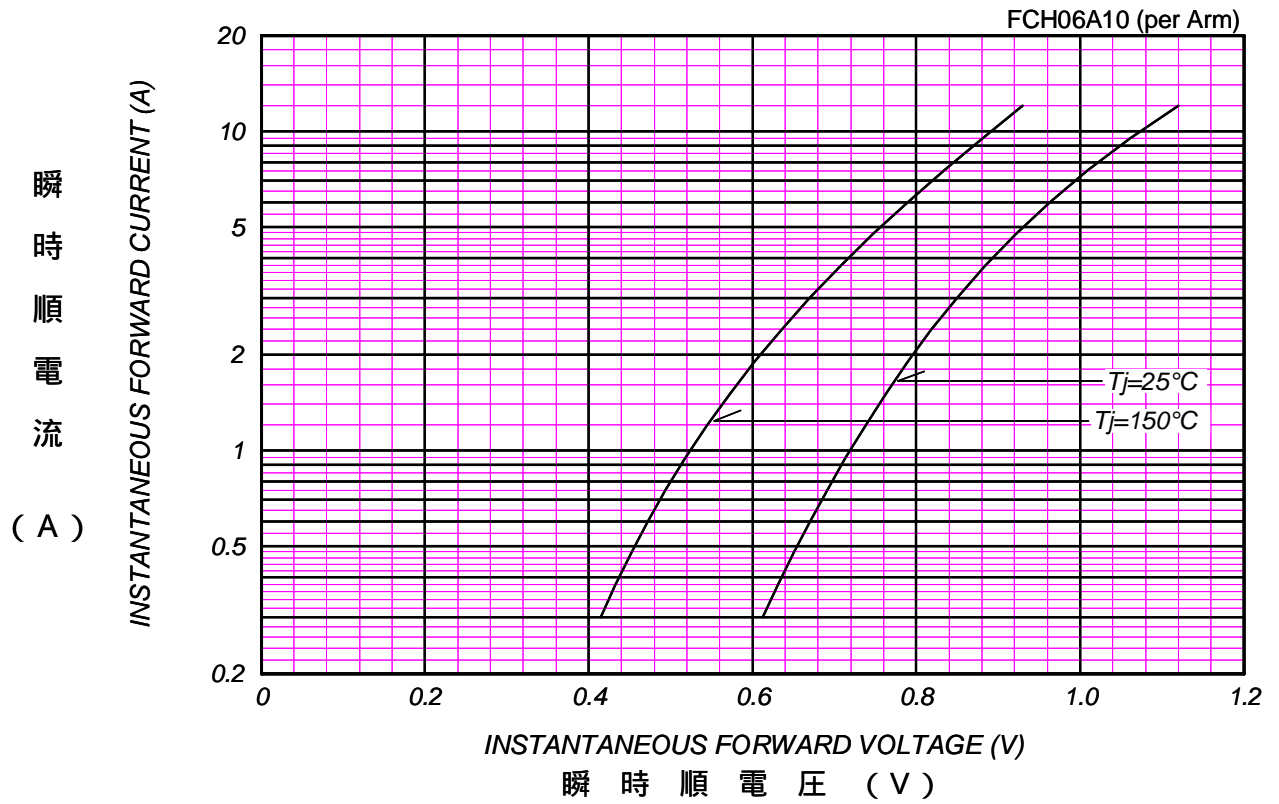
FCH_A_外形図 (mm)



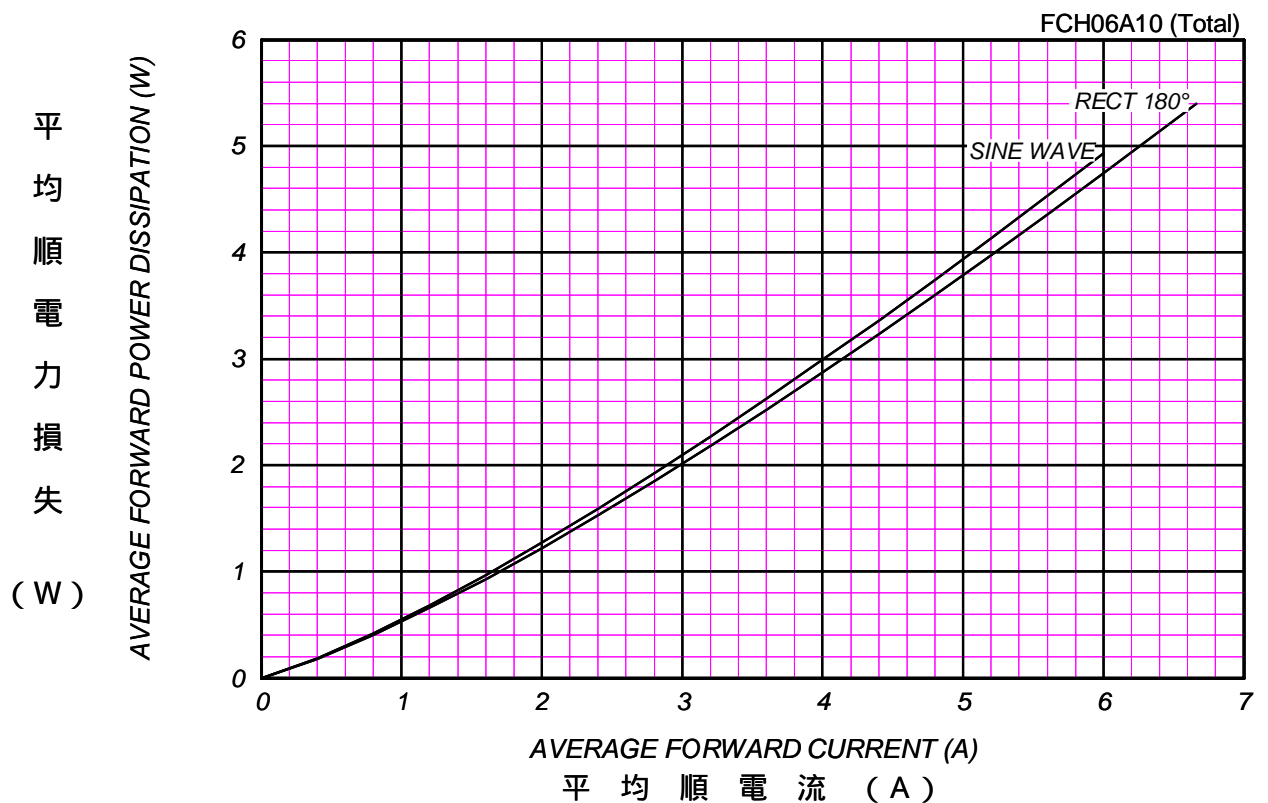
Center Tap



順電壓特性
FORWARD CURRENT VS. VOLTAGE



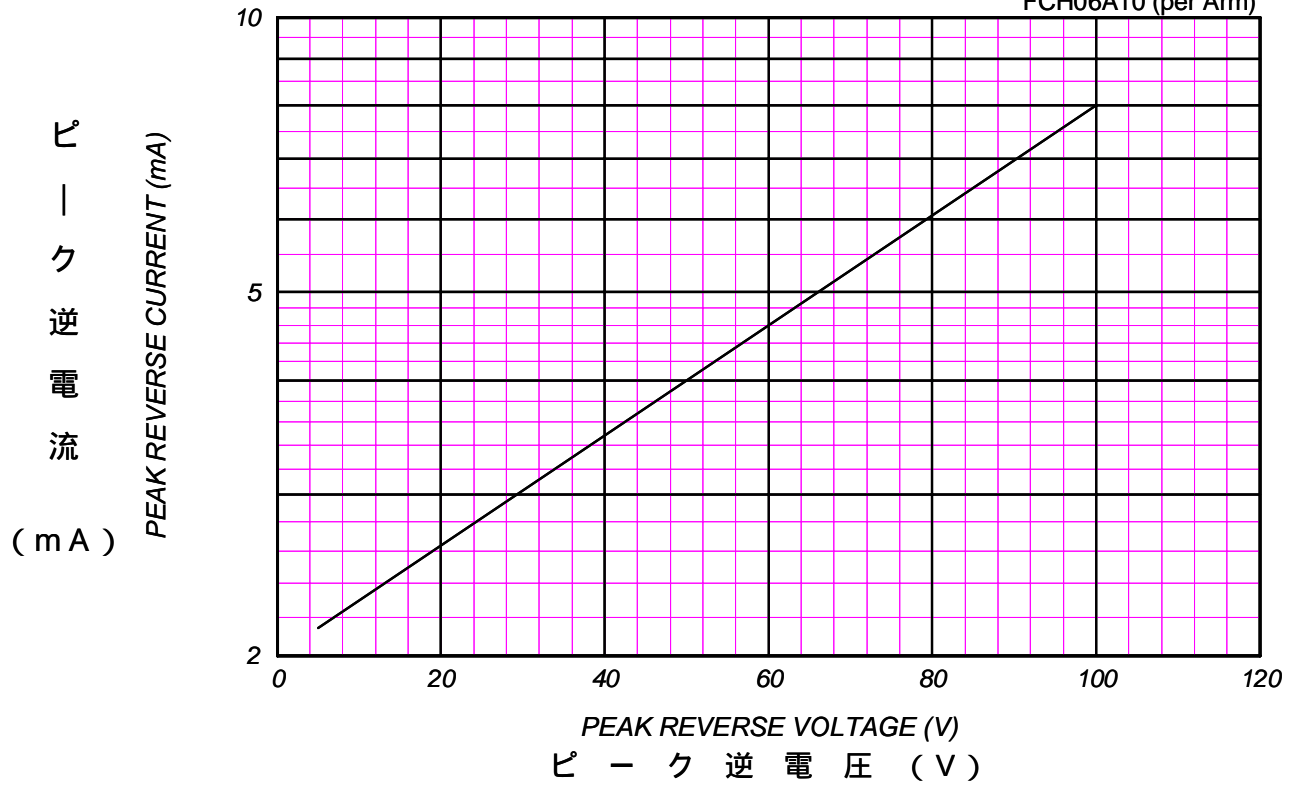
平均順電力損失特性
AVERAGE FORWARD POWER DISSIPATION



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

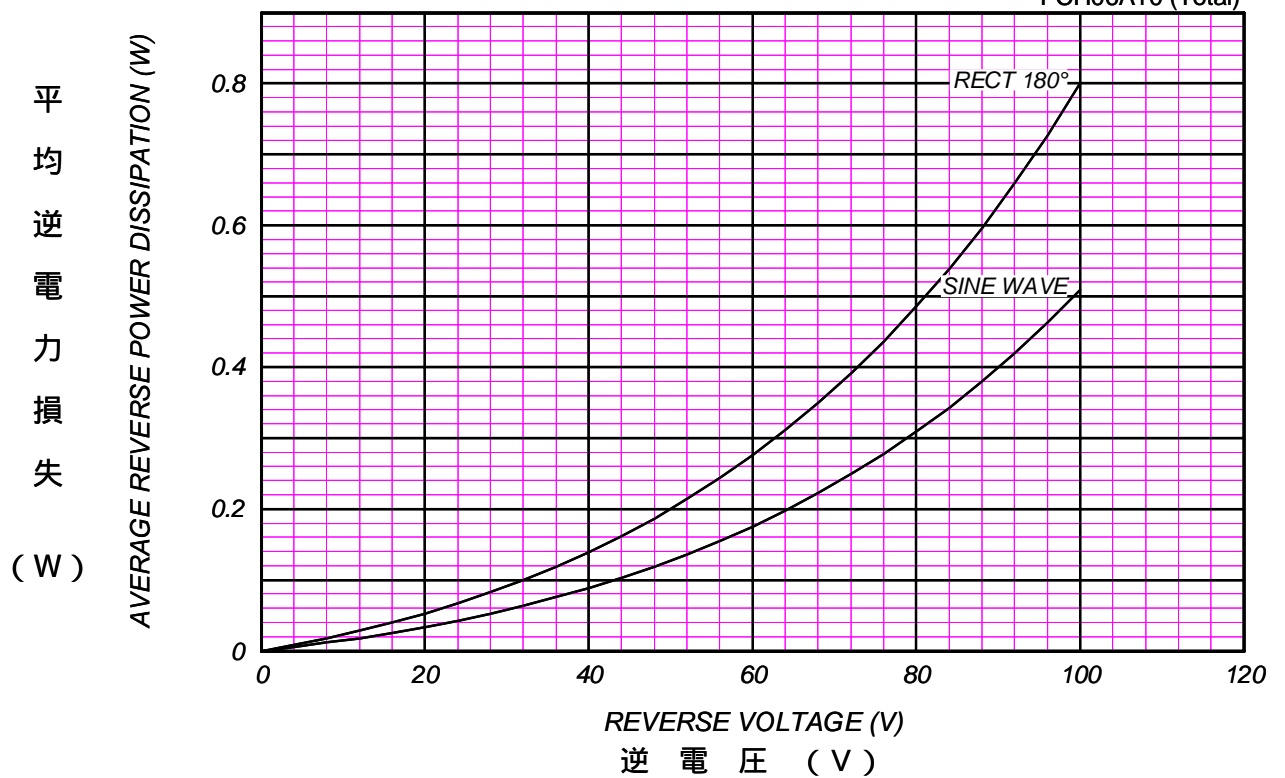
T_j = 150 °C

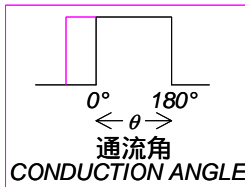
FCH06A10 (per Arm)



平均逆電力損失
AVERAGE REVERSE POWER DISSIPATION

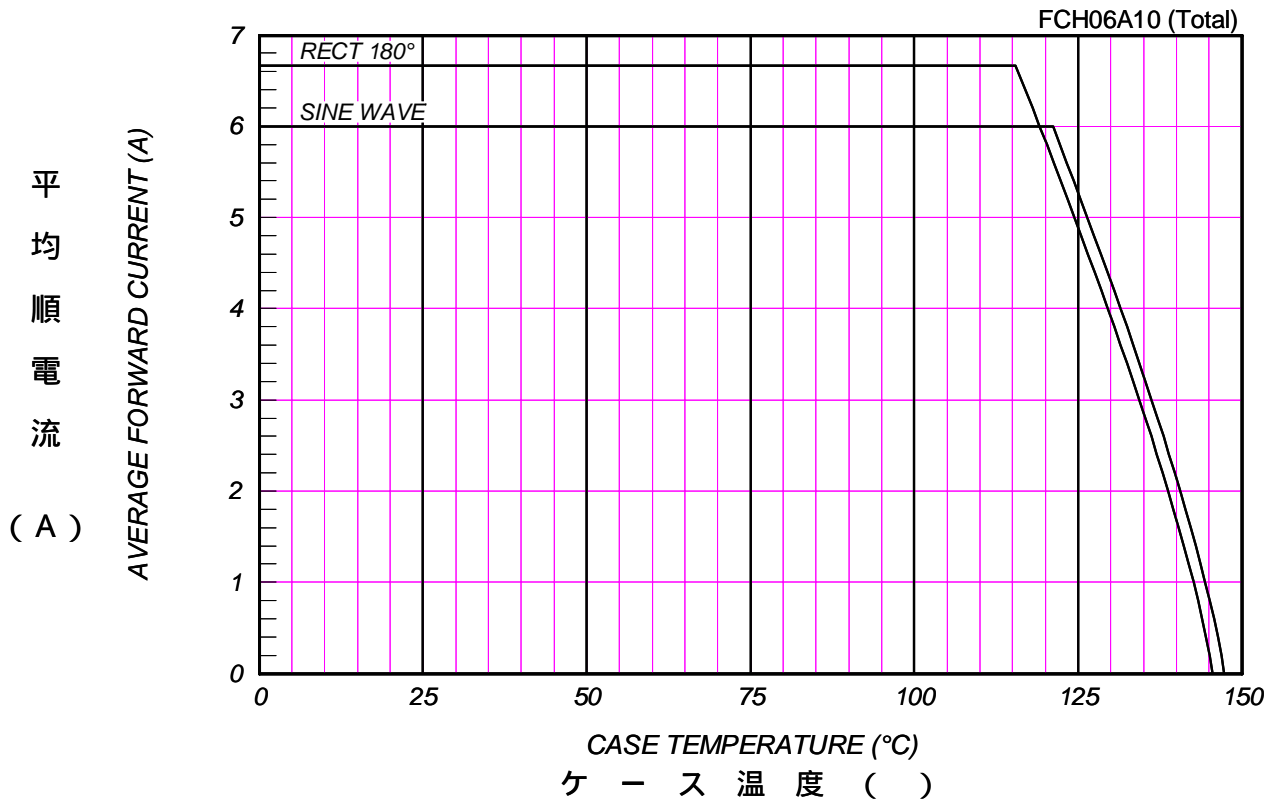
FCH06A10 (Total)





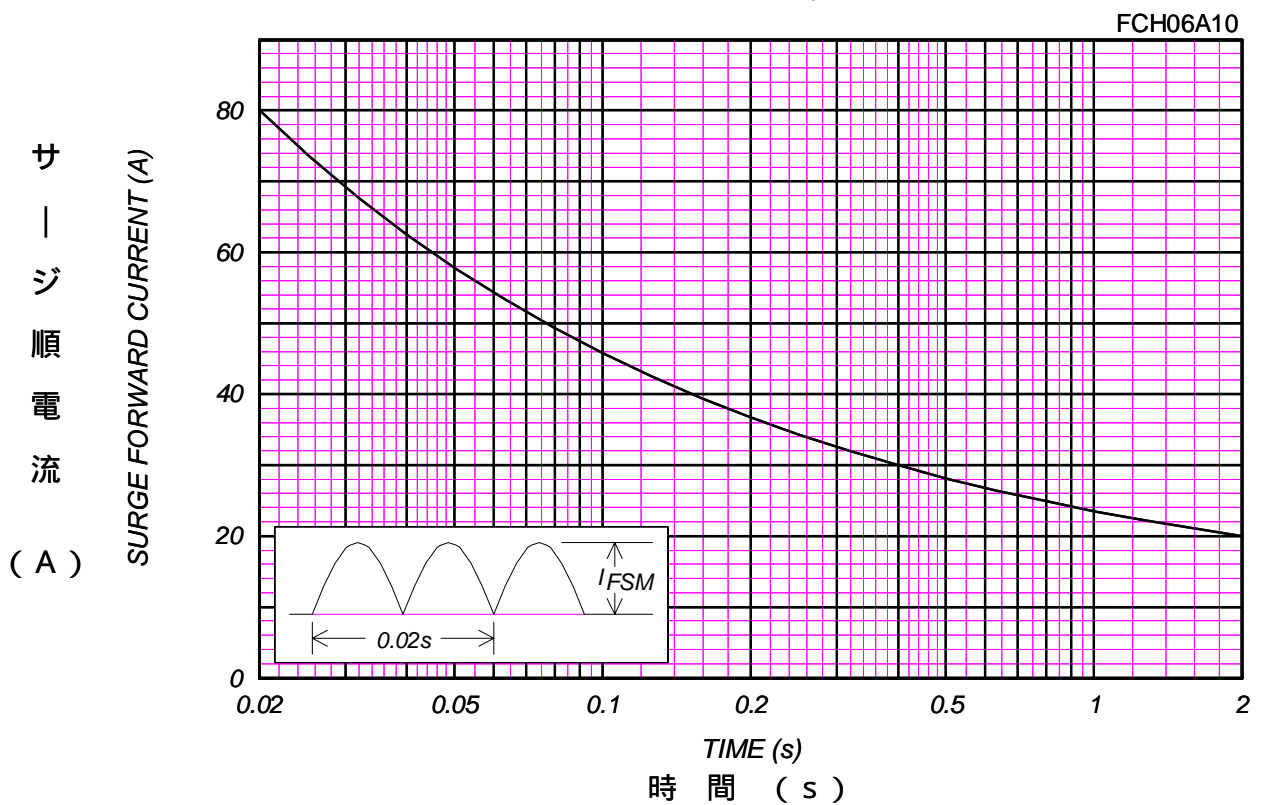
平均順電流 - ケース温度定格
 AVERAGE FORWARD CURRENT VS. CASE TEMPERATURE

$V_{RM}=100V$



サージ順電流定格
 SURGE CURRENT RATINGS

f=50Hz, 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

FCH06A10 (per Arm)

