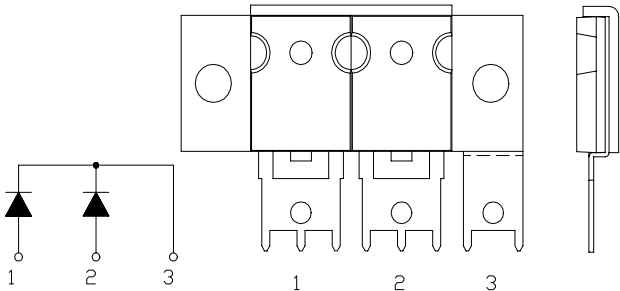


**SBD**    Type : C120P06QE

■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

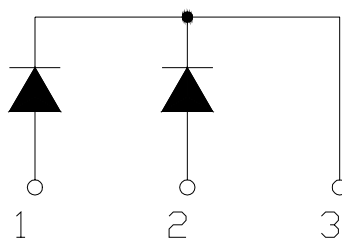
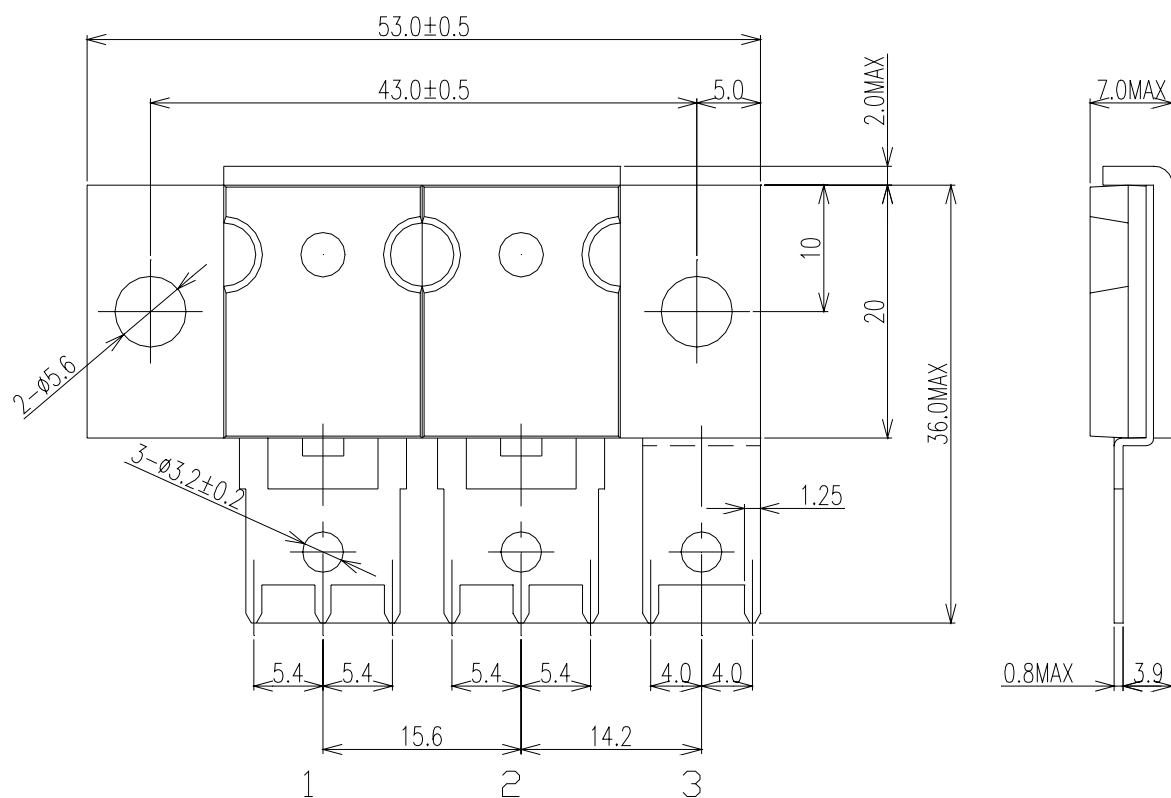
Approx Net Weight:30g

| Rating                                             | Symbol       | C120P06QE                                                       |                                                                    |                                                       | 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 Output Current         | $I_o$        | 120                                                             | $T_c=81^{\circ}C$                                                  | 50 Hz、正弦全波通電抵抗負荷<br>Full Sine Wave,<br>Resistive Load | A           |
| 実効順電流<br>RMS Forward Current                       | $I_{F(RMS)}$ | 133                                                             |                                                                    |                                                       | A           |
| サージ順電流<br>Surge Forward Current                    | $I_{FSM}$    | 700                                                             | 50 Hz 正弦全波, 1サイクル, 非くり返し<br>Full Sine Wave, 1cycle, Non-repetitive |                                                       | A           |
| 動作接合温度範囲<br>Operating Junction Temperature Range   | $T_{jW}$     | - 40 ～ + 150                                                    |                                                                    |                                                       | $^{\circ}C$ |
| 保存温度範囲<br>Storage Temperature Range                | $T_{stg}$    | - 40 ～ + 150                                                    |                                                                    |                                                       | $^{\circ}C$ |
| 締付けトルク<br>Mounting torque                          | $F_{tor}$    | アノード・カソード電極部推奨値=0.5<br>(Anode, Kathode Lead Recommended torque) |                                                                    |                                                       | N・m         |
|                                                    |              | カソードベース部推奨値=2.4<br>(Kathode Base Recommended torque)            |                                                                    |                                                       |             |

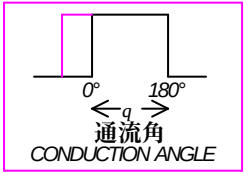
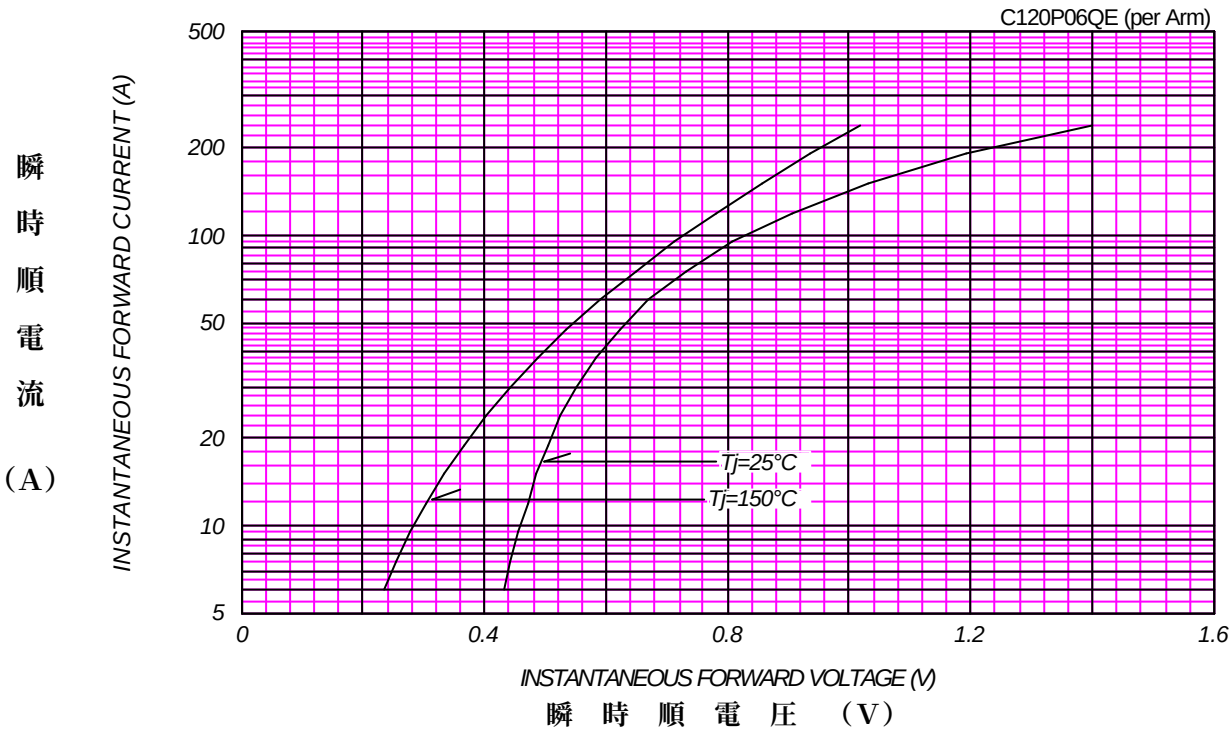
■電氣的・熱的特性 / Electrical・Thermal Characteristics

| Characteristics                                       | Symbol        | Conditions                                       | Min. | Typ. | Max. | Unit          |
|-------------------------------------------------------|---------------|--------------------------------------------------|------|------|------|---------------|
| ピーク逆電流<br>Peak Reverse Current                        | $I_{RM}$      | $T_j = 25^{\circ}C, V_{RM} = V_{RRM}$<br>per arm | -    | -    | 40   | mA            |
| ピーク順電圧<br>Peak Forward Voltage                        | $V_{FM}$      | $T_j = 25^{\circ}C, I_{FM} = 60 A$<br>per arm    | -    | -    | 0.67 | V             |
| 熱抵抗(接合部・ケース間)<br>Thermal Resistance(Junction to Case) | $R_{th(j-c)}$ | Junction to Case                                 | -    | -    | 0.45 | $^{\circ}C/W$ |

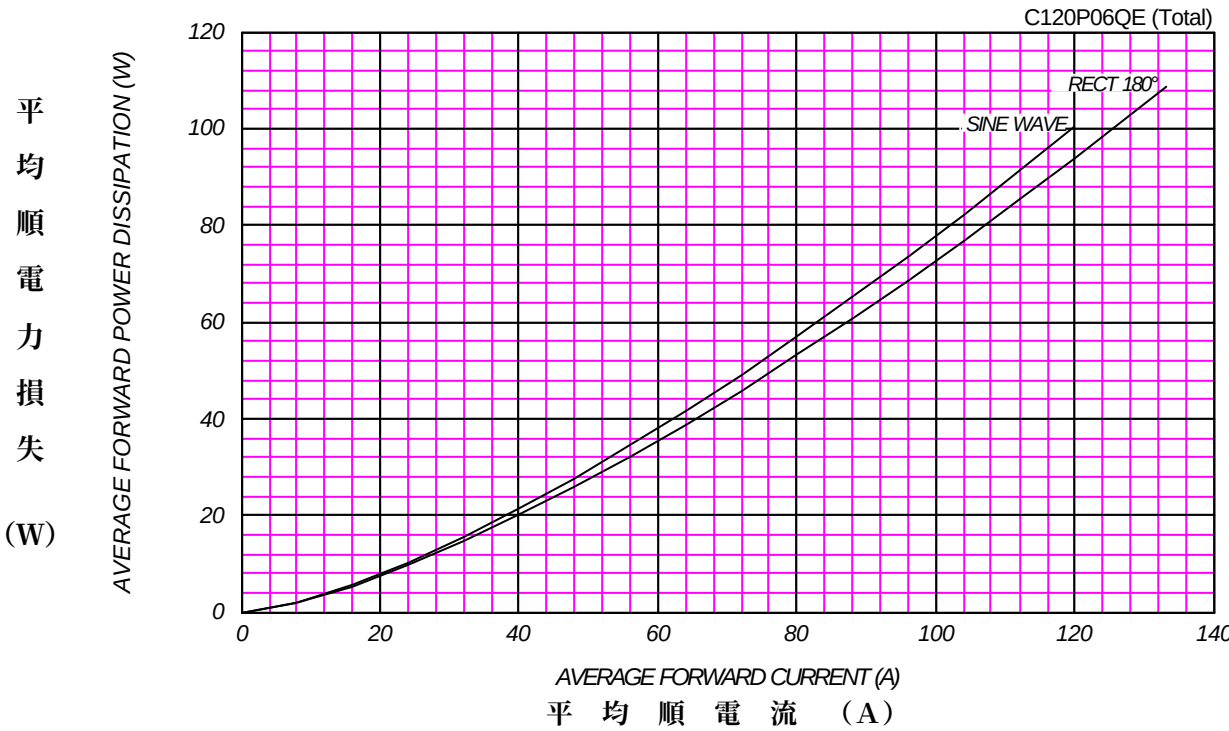
# C120P06QE 外形図(mm)



順電壓特性  
FORWARD CURRENT VS. VOLTAGE

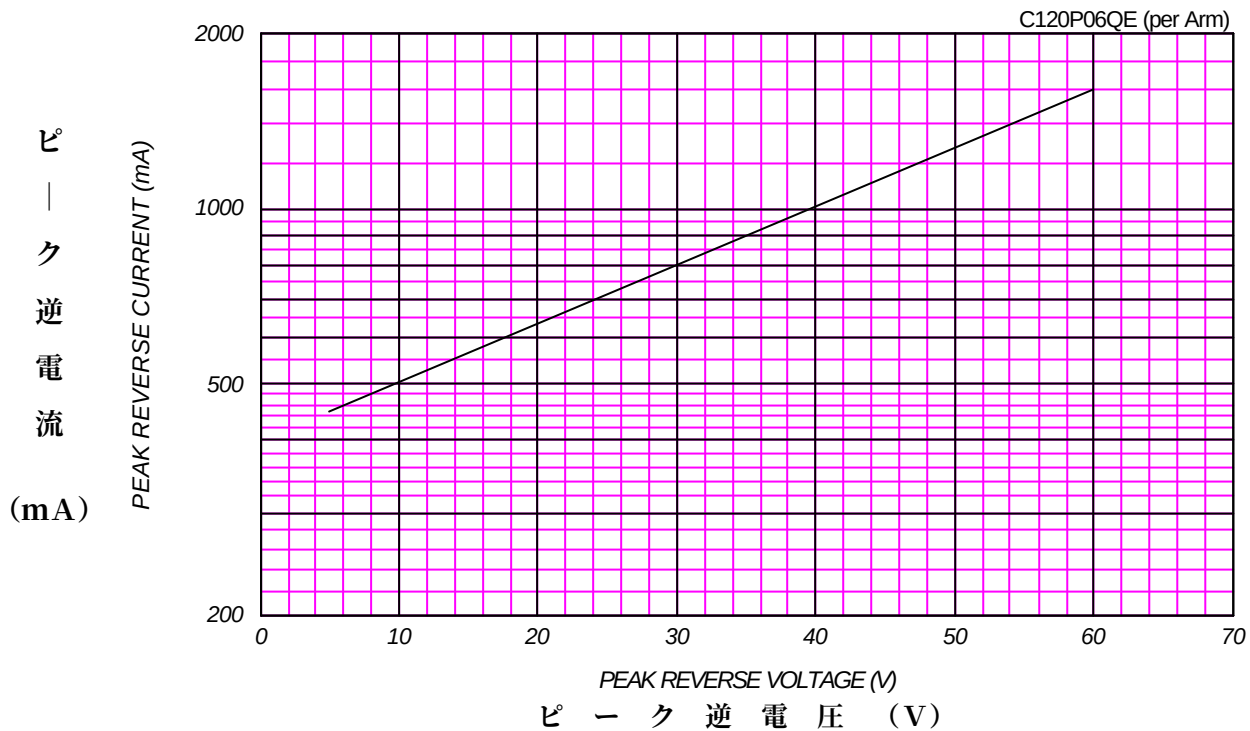


平均順電力損失特性  
AVERAGE FORWARD POWER DISSIPATION

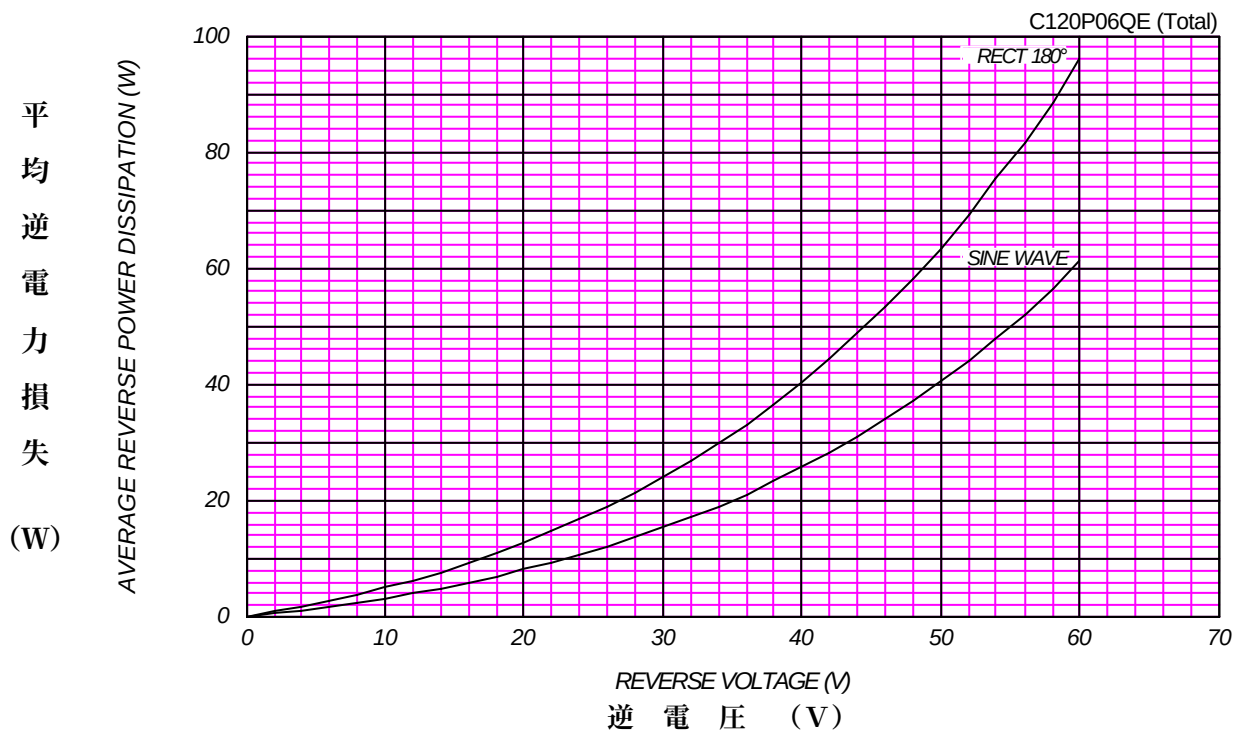


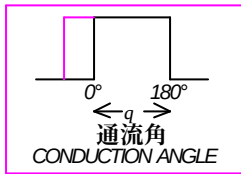
ピーク逆電流 — ピーク逆電圧特性  
PEAK REVERSE CURRENT VS. PEAK REVERSE VOLTAGE

Tj= 150 °C



平均逆電力損失  
AVERAGE REVERSE POWER DISSIPATION

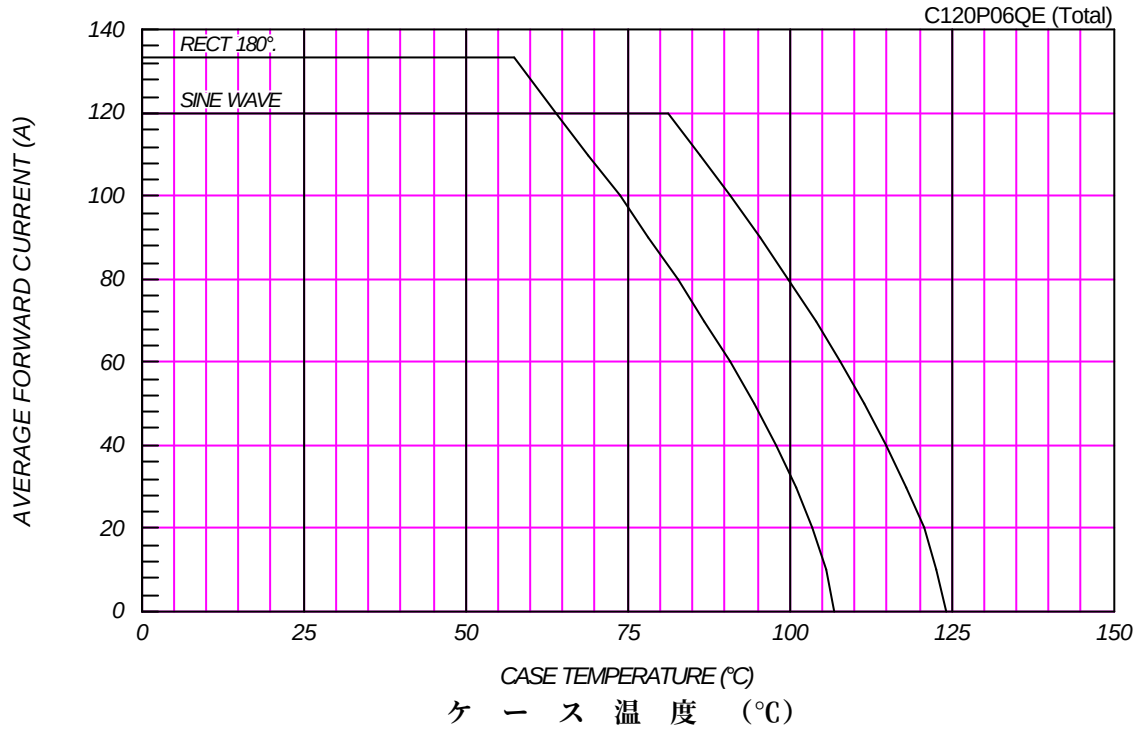




## 平均順電流－ケース温度定格 AVERAGE FORWARD CURRENT VS. CASE TEMPERATURE

$V_{RM}=60V$

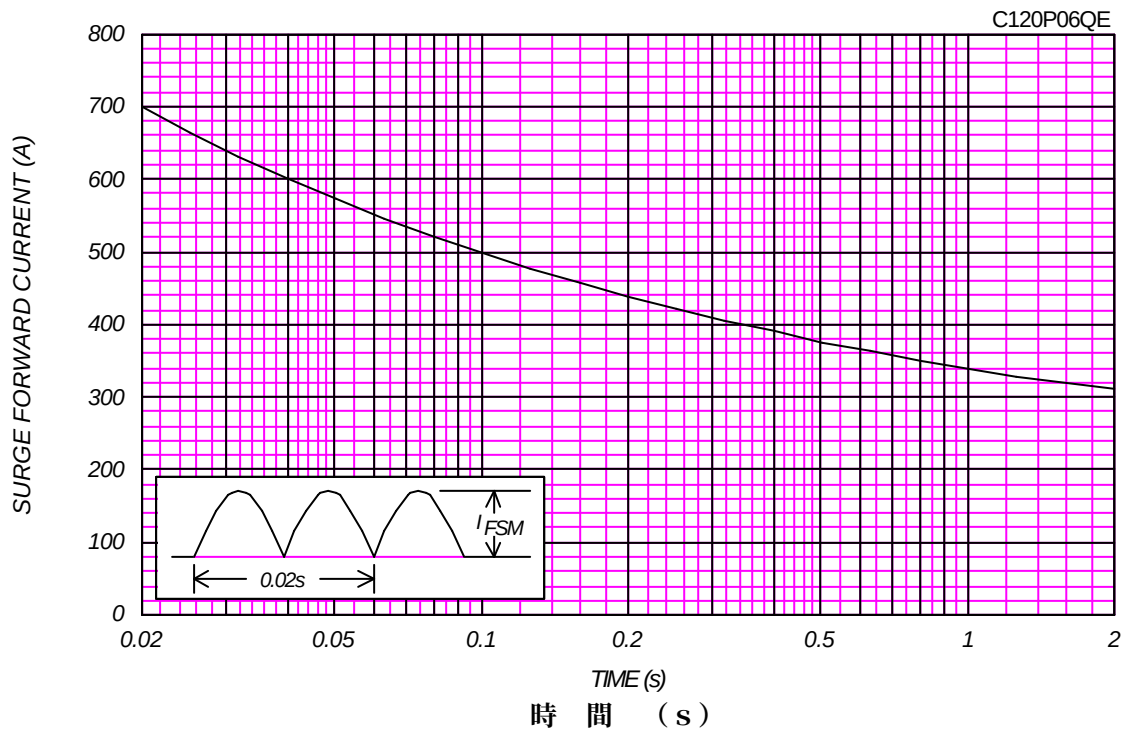
平均順電流  
(A)



## サージ順電流定格 SURGE CURRENT RATINGS

$f=50Hz$ , Half Sine Wave, Non-Repetitive, No Load

サージ順電流  
(A)



接 合 容 量 特 性  
JUNCTION CAPACITANCE VS. REVERSE VOLTAGE

T<sub>j</sub>=25° C, V<sub>m</sub>=20mV<sub>RMS</sub>, f=100 kHz, Typical Value

