

SBD Type : C120P06QE

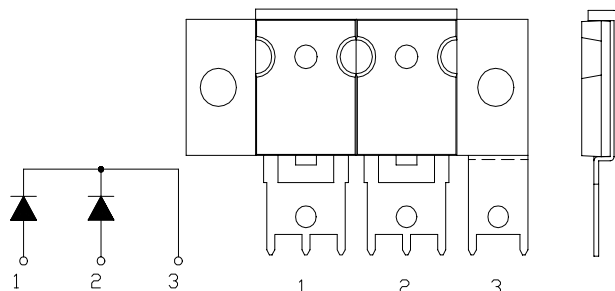
OUTLINE DRAWING

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

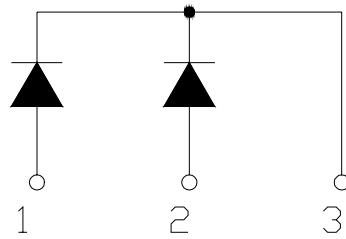
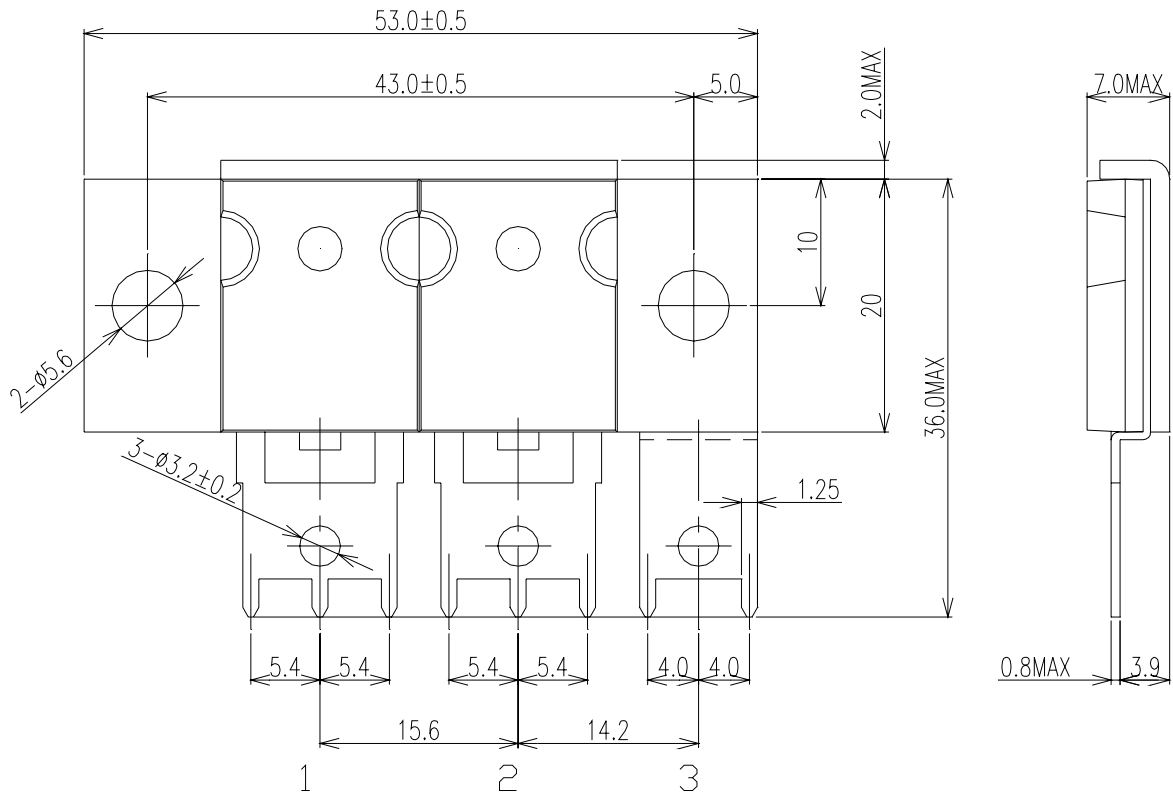
Approx Net Weight:30g

| Rating | Symbol | C120P06QE | | | Unit |
|--|--------------|---|--|---|------|
| くり返しピーク逆電圧 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 | 120 | $T_c=81$ | 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 | $I_{F(RMS)}$ | 133 | | | A |
| サージ順電流 Surge Forward Current | I_{FSM} | 700 | 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 | | | |
| 締付けトルク Mounting torque | F_{tor} | アノード・カソード電極部推奨値=0.5 (Anode, Kathode Lead Recommended torque) | | | N·m |
| | | カソードベース部推奨値=2.4 (Kathode Base Recommended torque) | | | |

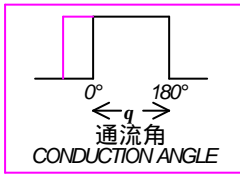
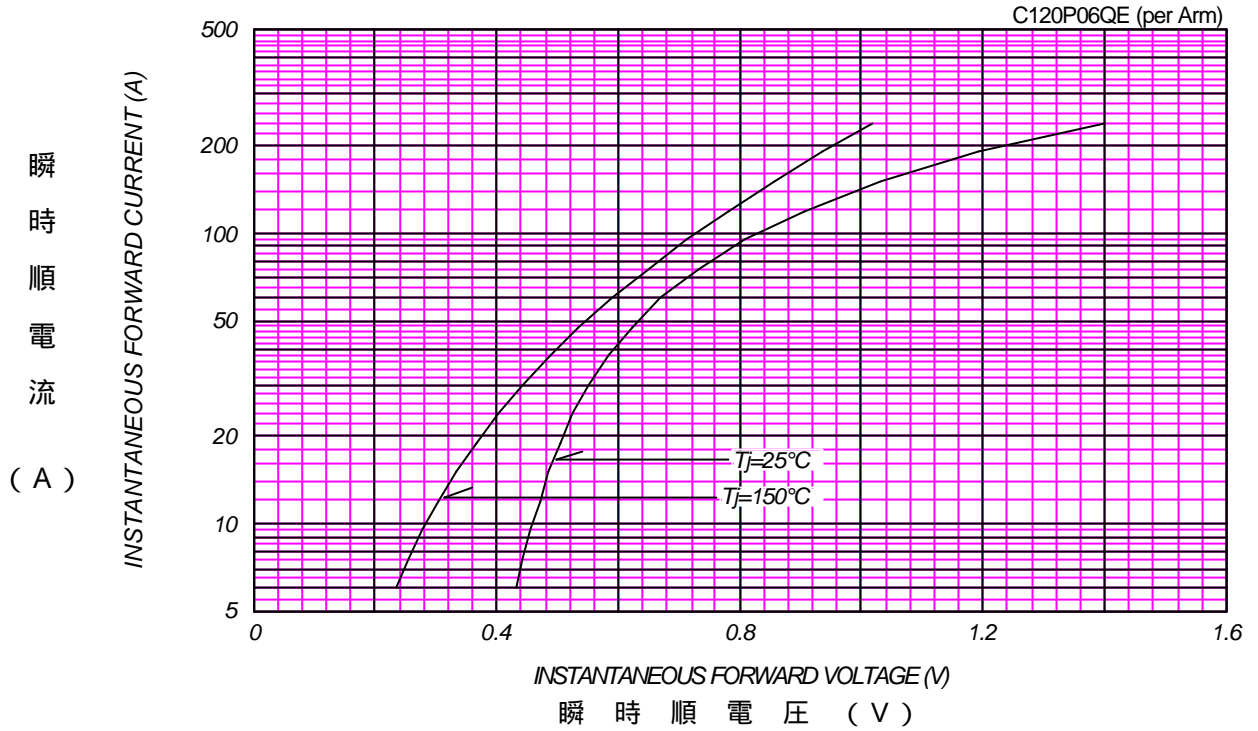
電氣的・熱的特性 / Electrical · Thermal Characteristics

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

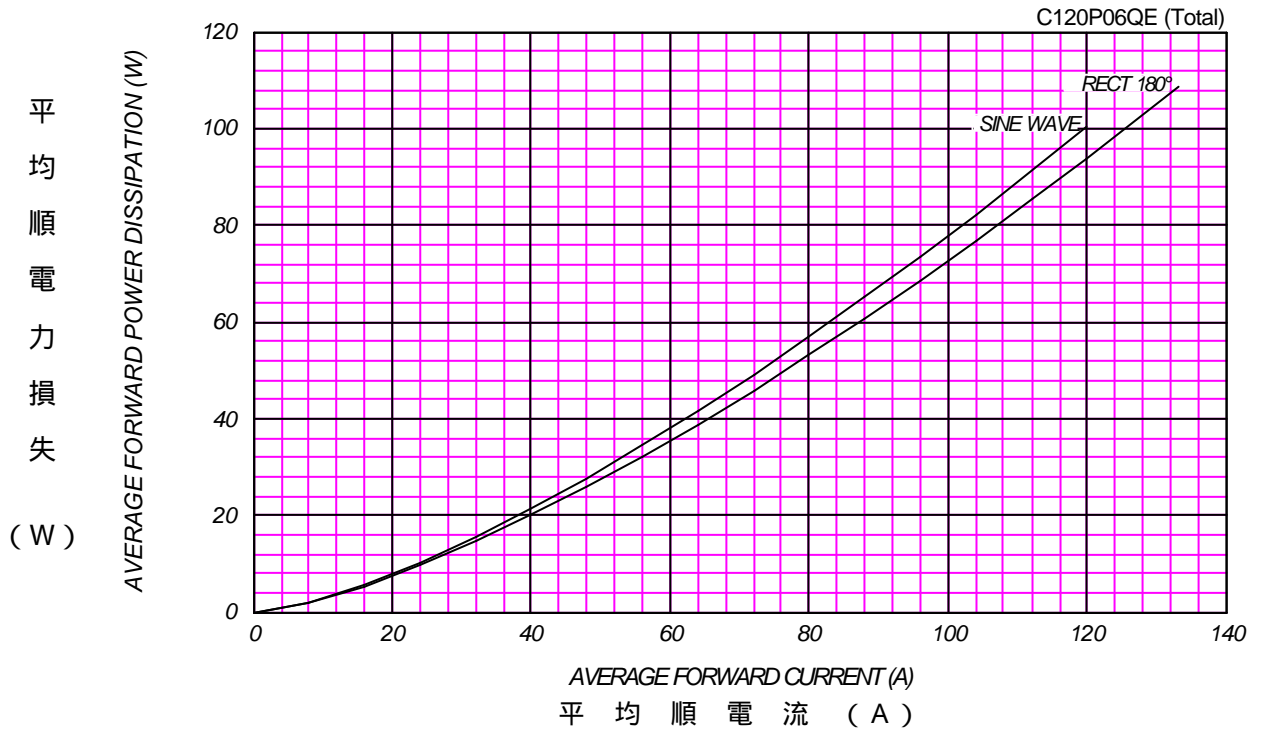
C120P06QE 外形図(mm)



順電压特性
FORWARD CURRENT VS. VOLTAGE

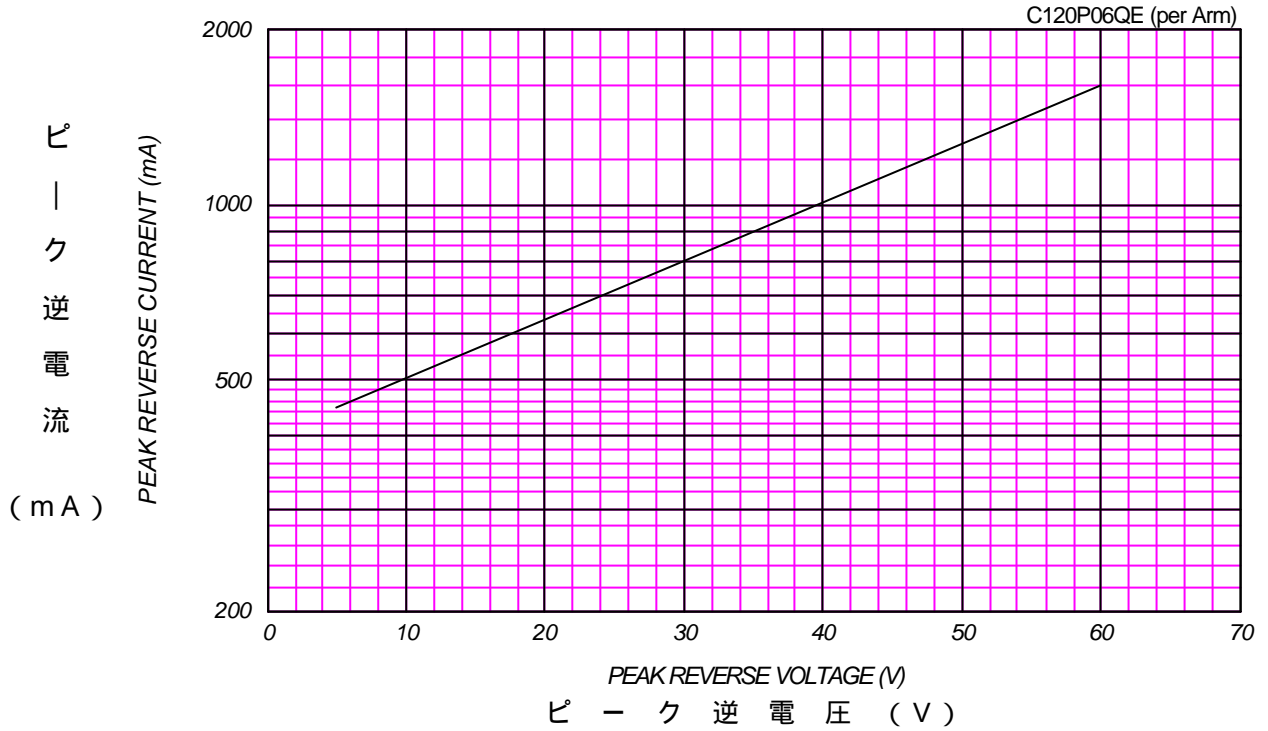


平均順電力損失特性
AVERAGE FORWARD POWER DISSIPATION

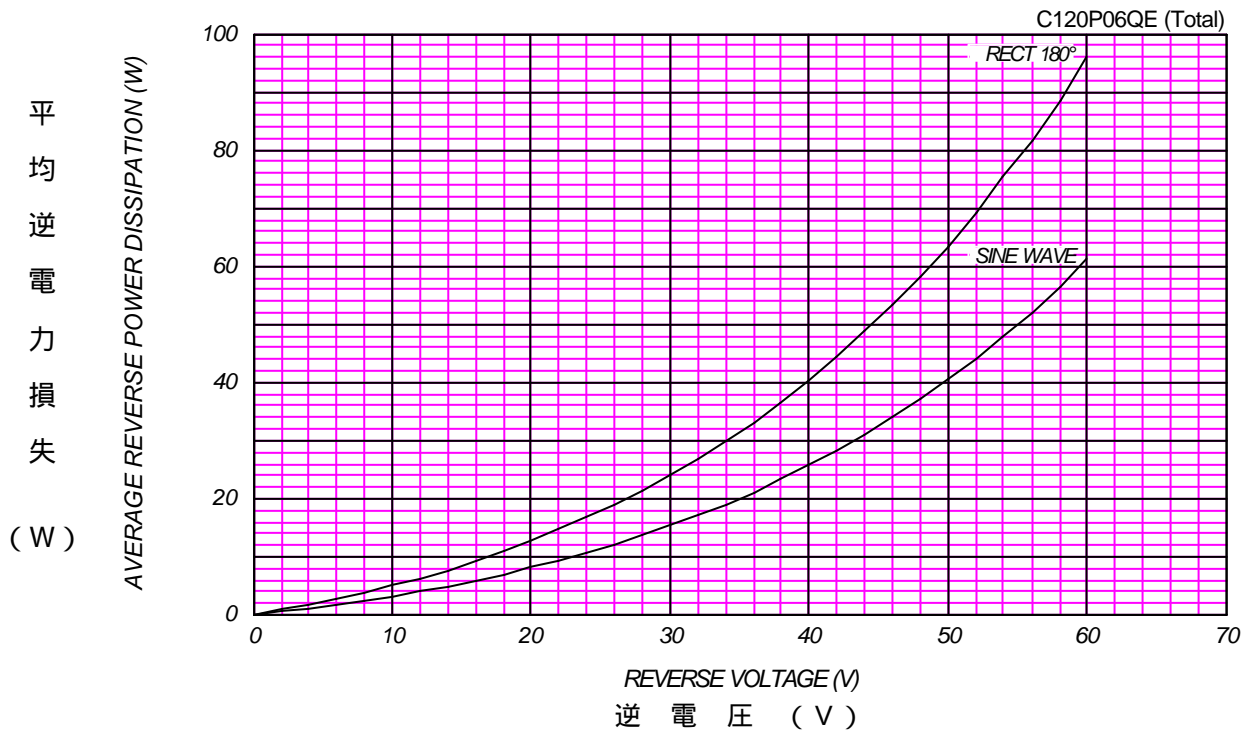


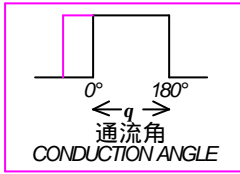
ピーク逆電流 - ピーク逆電圧特性
 PEAK REVERSE CURRENT VS. PEAK REVERSE VOLTAGE

T_j = 150 °C



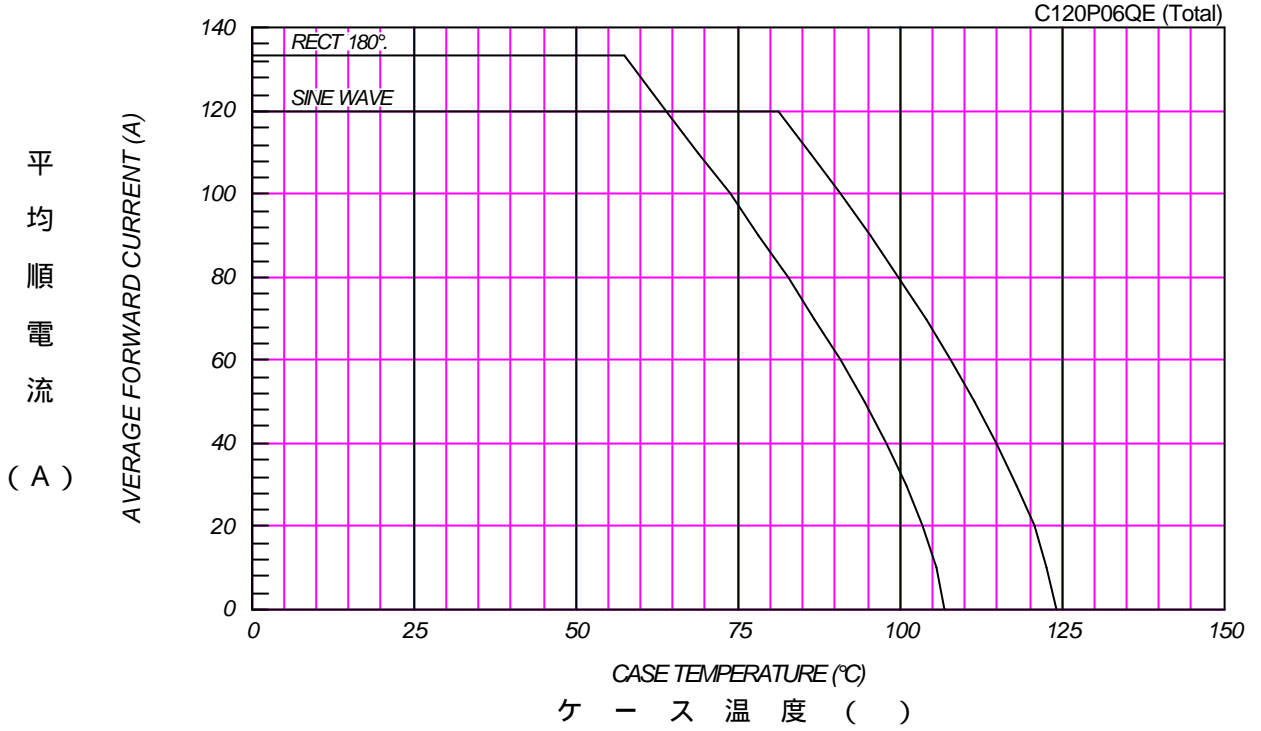
平均逆電力損失
 AVERAGE REVERSE POWER DISSIPATION





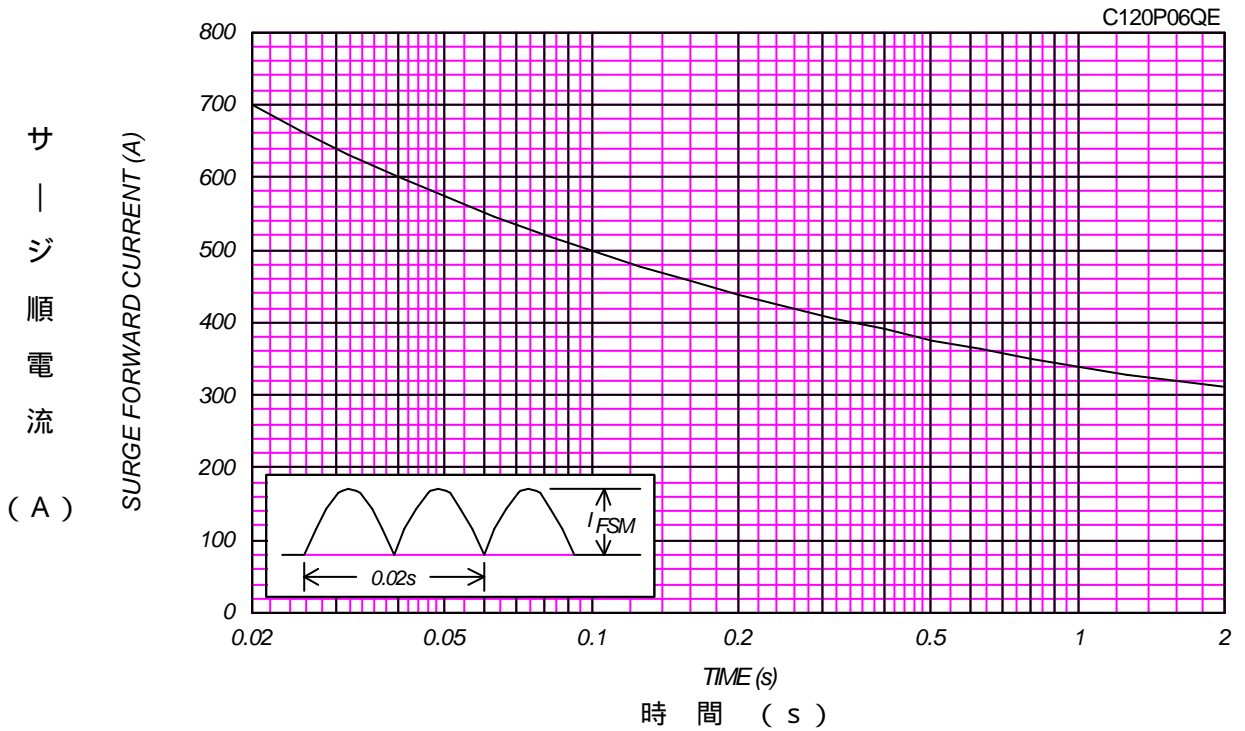
平均順電流 - ケース温度定格
AVERAGE FORWARD CURRENT VS. CASE TEMPERATURE

$V_{RM}=60V$



サージ順電流定格
SURGE CURRENT RATINGS

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



接合容量特性 JUNCTION CAPACITANCE VS. REVERSE VOLTAGE

T_j=25°C, V_m=20mV_{RMS}, f=100kHz, Typical Value

