

20A Avg.

65 Volts

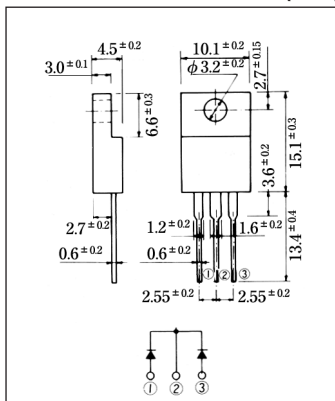
SBD

FCQS20B065

■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    | $V_{RRM}$  | 65                                                                      | V       |
| 平均整流電流<br>Average Rectified Forward Current      | $I_O$      | 50Hz、正弦全波通電抵抗負荷<br>50Hz Full Sine Wave Resistive Load                   | 20      |
| 実効順電流<br>R.M.S. Forward Current                  | $I_F(RMS)$ | 22.2                                                                    | A       |
| サージ順電流<br>Surge Forward Current                  | $I_{FSM}$  | 180 50Hz正弦全波、1サイクル、非くり返し<br>50Hz Full 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:1.75g

■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 | $I_{RM}$      | $T_j=25^{\circ}C$ , $V_{RM}=V_{RRM}$ , 一素子あたり<br>Per Diode | —    | —    | 1    | mA   |
| ピーク順電圧<br>Peak Forward Voltage | $V_{FM}$      | $T_j=25^{\circ}C$ , $I_{FM}=10A$ , 一素子あたり<br>Per Diode     | —    | —    | 0.63 | V    |
| 熱抵抗<br>Thermal Resistance      | $R_{th(j-c)}$ | 接合部・ケース<br>Junction to Case                                | —    | —    | 2.0  | °C/W |
|                                | $R_{th(c-f)}$ | ケース・フィン間<br>Case to Fin                                    | —    | —    | 1.5  | °C/W |

■定格・特性曲線

FIG.1  
順電圧特性  
FORWARD CURRENT VS. VOLTAGE

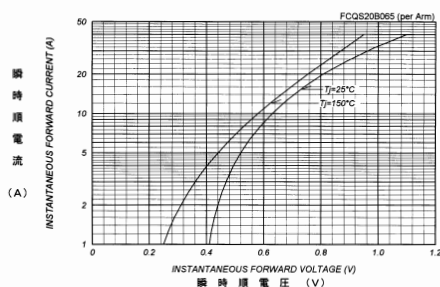


FIG.2  
平均順電力損失特性  
AVERAGE FORWARD POWER DISSIPATION

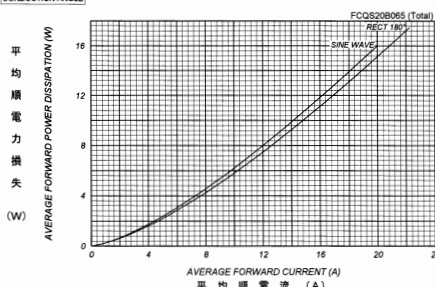


FIG.3  
ピーク逆電流 - ピーク逆電圧特性  
PEAK REVERSE CURRENT VS. PEAK REVERSE VOLTAGE  
 $T_j=150^{\circ}C$

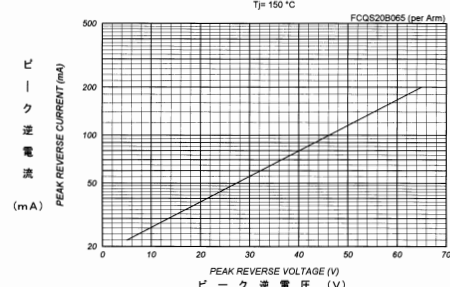


FIG.4  
平均逆電力損失  
AVERAGE REVERSE POWER DISSIPATION

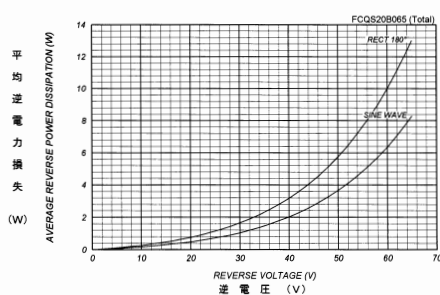


FIG.5  
平均順電流 - ケース温度定格  
AVERAGE FORWARD CURRENT VS. CASE TEMPERATURE  
 $V_{RM}=30V$

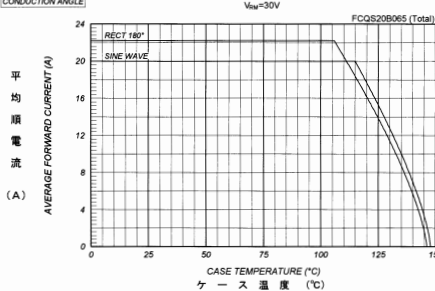


FIG.6  
サージ順電流定格  
SURGE CURRENT RATINGS  
 $f=50Hz$  Half Sine Wave, Non-Repetitive, No Load

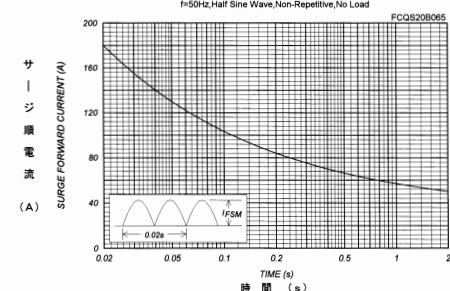


FIG.7  
接合容量特性  
JUNCTION CAPACITANCE VS. REVERSE VOLTAGE  
 $T_j=25^{\circ}C$ ,  $V_m=20mV_{max}$ ,  $f=100kHz$  Typical Value

