

1.0A Avg.

30 Volts

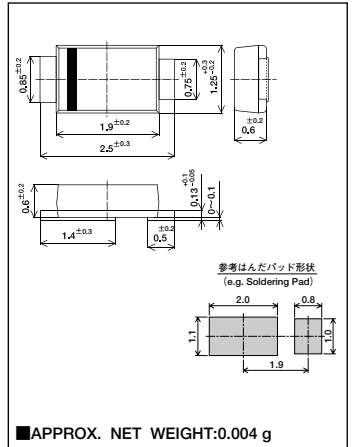
SBD

SA10QA03

■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    | $V_{RRM}$ | 30  | V         |
| 直流順電流<br>Direct Forward Current                  | $I_{DC}$  | 直流通電<br>Direct Current<br>$T_a=86^\circ\text{C}^*1$   | 1.41<br>A |
| 平均整流電流<br>Average rectified Forward Current      | $I_o$     | 方形波通電<br>RECT 180°<br>Rectangular Wave<br>50% Duty<br>$T_a=73^\circ\text{C}^*1, V_{RM}=15\text{V}$<br>$T_l=124^\circ\text{C}, V_{RM}=15\text{V}$<br>( $T_l$ : Lead Temperature) | 1.0<br>A  |
| サージ順電流<br>Surge Forward Current                  | $I_{FSM}$ | 20 (50Hz正弦半波1サイクル非くり返し)<br>Half 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        |

■OUTLINE DRAWING(mm)



■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 | $I_{RM}$      | $V_{RM}=5\text{V}$ $T_a=25^\circ\text{C}$<br>$V_{RM}=30\text{V}$ $T_a=25^\circ\text{C}$    | —                                 | 1<br>10      | —<br>100   | $\mu\text{A}$<br>mA |
| ピーク順電圧<br>Peak Forward Voltage | $V_{FM}$      | $I_{FM}=0.7\text{A}$ $T_a=25^\circ\text{C}$<br>$I_{FM}=1.0\text{A}$ $T_a=25^\circ\text{C}$ | —                                 | 0.42<br>0.47 | 0.45<br>—  | V                   |
| 熱抵抗<br>Thermal Resistance      | $R_{th(j-a)}$ | 接合部・周囲間<br>(Junction to Ambient)   | *1 (アルミナ基板実装)<br>*2 (ガラスエポキシ基板実装) |              | 100<br>150 | °C/W                |
|                                |               | 接合部・リード間<br>(Junction to Lead)   |                                   |              | 30         |                     |

\*1: プリント基板実装/Alumina Substrate Mounted (Soldering Land=6×6mm)  
\*2: プリント基板実装/Glass-Epoxy Substrate Mounted (Soldering Land=6×6mm)

■定格・特性曲線

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

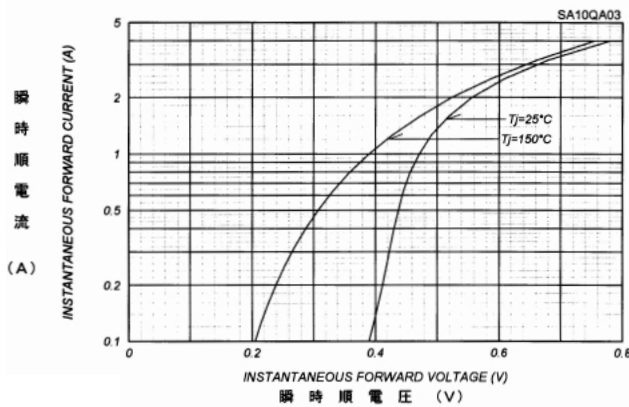


FIG.2  
平均順電力損失特性  
AVERAGE FORWARD POWER DISSIPATION

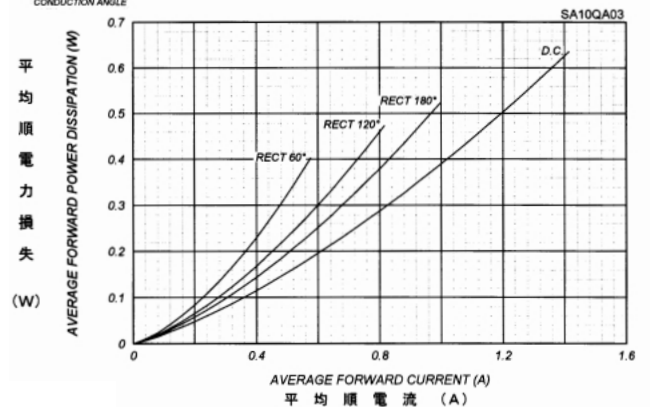


FIG.3  
ピーク逆電流 - ピーク逆電圧特性  
PEAK REVERSE CURRENT VS. PEAK REVERSE VOLTAGE  
 $T_j=150^\circ\text{C}$

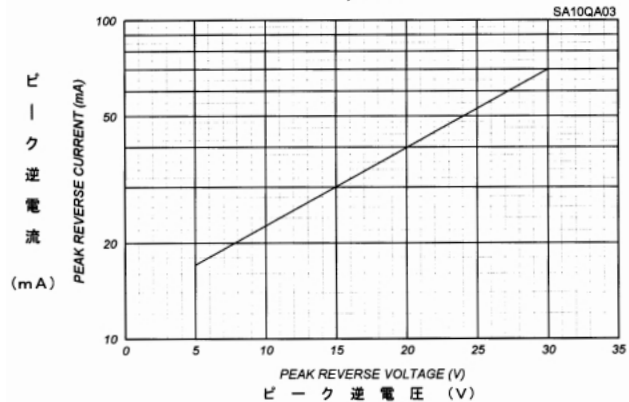
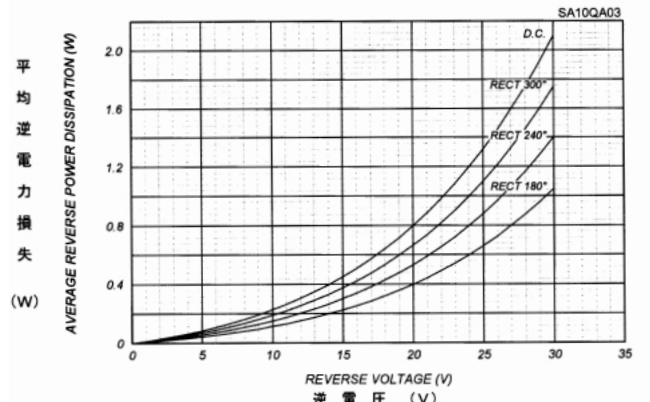


FIG.4  
平均逆電力損失  
AVERAGE REVERSE POWER DISSIPATION



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FIG.5

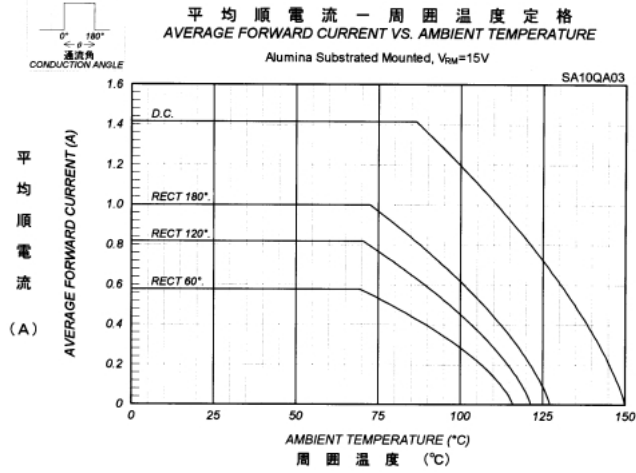


FIG.6

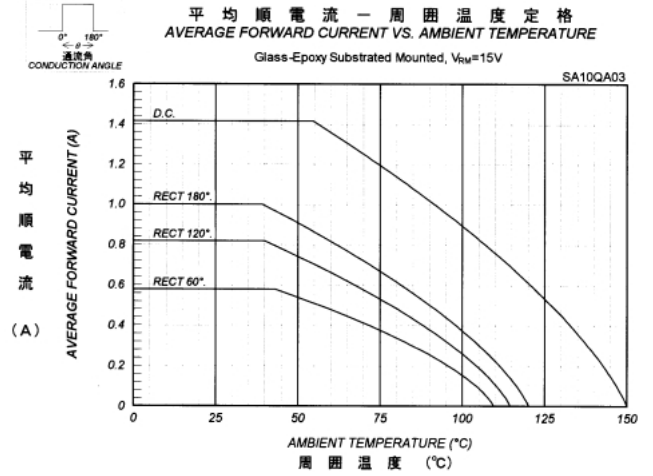


FIG.7

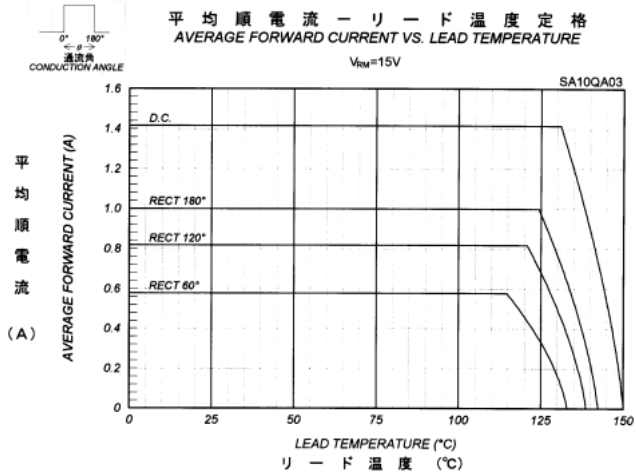


FIG.8

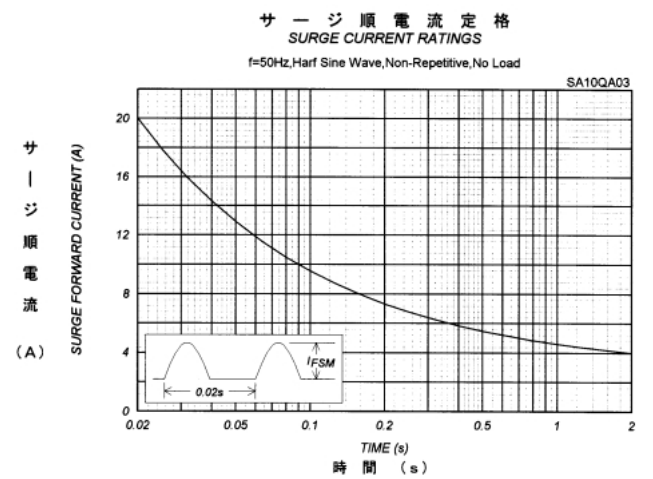


FIG.9

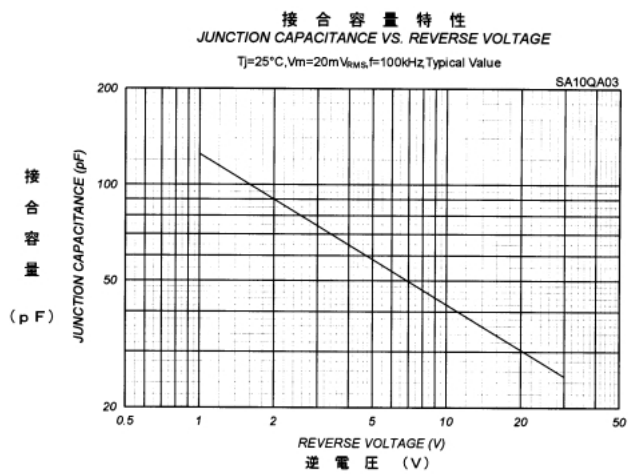


FIG.10

