

60A Avg.

10 Volts

SBD

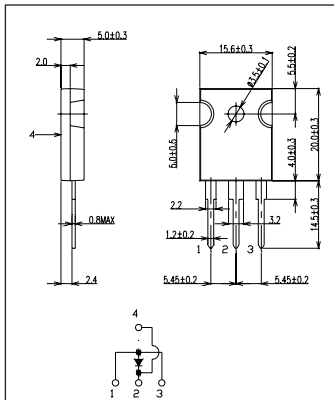
KSL60A01B

■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    | $V_{RRM}$         | 10  | V                            |
| 平均整流電流*<br>Average Rectified Forward Current     | $I_O$             | 50Hz、正弦半波通電抵抗負荷<br>50Hz Half Sine Wave Resistive Load                   | $T_c=64^\circ\text{C}$<br>60 |
| 実効順電流*<br>R.M.S. Forward Current                 | $I_F(\text{RMS})$ | 94.2  | A                            |
| サージ順電流*<br>Surge Forward Current                 | $I_{FSM}$         | 700 50Hz正弦半波、1サイクル、非くり返し<br>50Hz Half Sine Wave, 1cycle, Non-repetitive | A                            |
| 動作接合温度範囲<br>Operating Junction Temperature Range | $T_{jw}$          | -40~+100  | $^\circ\text{C}$             |
| 保存温度範囲<br>Storage Temperature Range              | $T_{stg}$         | -40~+125  | $^\circ\text{C}$             |
| 締付トルク<br>Mounting torque                         | $F_{tor}$         | 推奨値<br>Recommended Value  | 0.5 N·m                      |

\*アノード電極両側通電時 Anode Terminals 1 and 3 Connected

■OUTLINE DRAWING(mm)



■APPROX. NET WEIGHT:5.55g

■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  | $I_{RM}$      | $T_j=25^\circ\text{C}$ , $V_{RM}=V_{RRM}$    | —    | —    | 40   | mA                        |
| ピーク順電圧*<br>Peak Forward Voltage | $V_{FM}$      | $T_j=25^\circ\text{C}$ , $I_{FM}=60\text{A}$ | —    | —    | 0.45 | V                         |
| 熱抵抗<br>Thermal Resistance       | $R_{th(j-c)}$ | 接合部・ケース間<br>Junction to Case                 | —    | —    | 0.75 | $^\circ\text{C}/\text{W}$ |

\*アノード電極両側通電時 Anode Terminals 1 and 3 Connected

■定格・特性曲線

FIG.1

順電圧特性  
FORWARD CURRENT VS. VOLTAGE

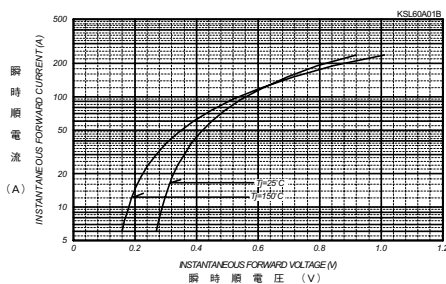


FIG.2

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

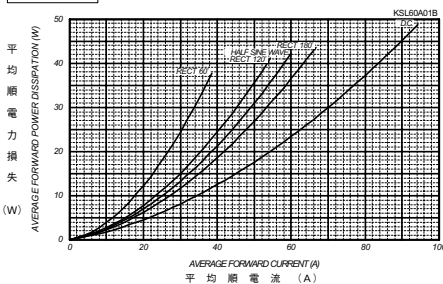


FIG.3

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

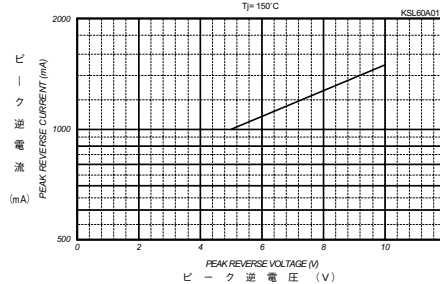


FIG.4

平均逆電力損失  
AVERAGE REVERSE POWER DISSIPATION

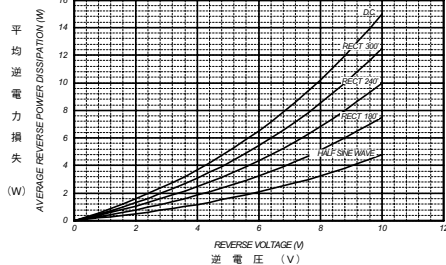


FIG.5

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

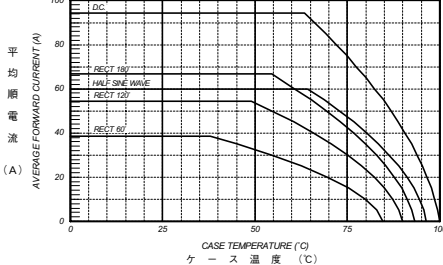


FIG.6

サージ順電流定格  
SURGE CURRENT RATINGS

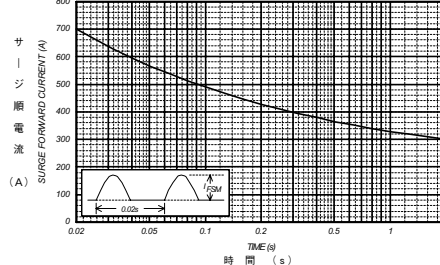


FIG.7

接合容量特性  
JUNCTION CAPACITANCE VS. REVERSE VOLTAGE

