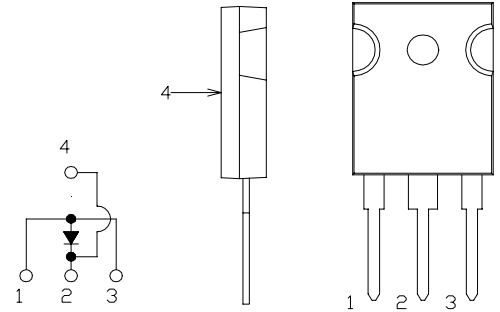


SBD Type : KSL60A01B

OULINE DRAWING

FEATURES

- * Similar to TO-247AC(TO-3P)Case
- * Extremely Low Forward Voltage Drop
- * Low Power Loss,High Efficiency
- * High Surge Current Capability



Maximum Ratings

Approx Net Weight: 5.55g

| Rating | Symbol | KSL60A01B | | | Unit |
|-------------------------------------|--------------|--------------------------|--|-------------------------------------|-------------------------|
| Repetitive Peak Reverse Voltage | V_{RRM} | 10 | | | V |
| Average Rectified Output Current *1 | I_O | 60 | $T_c=64^\circ\text{C}$ | 50 Hz half Sine Wave Resistive Load | A |
| RMS Forward Current | $I_{F(RMS)}$ | 94.2 | | | A |
| Surge Forward Current | I_{FSM} | 700 | 50Hz Half Sine Wave ,1cycle Non-repetitive | | A |
| Operating JunctionTemperature Range | T_{jw} | -40 to +100 | | | $^\circ\text{C}$ |
| Storage Temperature Range | T_{stg} | -40 to +125 | | | $^\circ\text{C}$ |
| Mounting torque | F_{tor} | recommended torque = 0.5 | | | $\text{N}\cdot\text{m}$ |

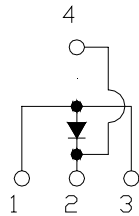
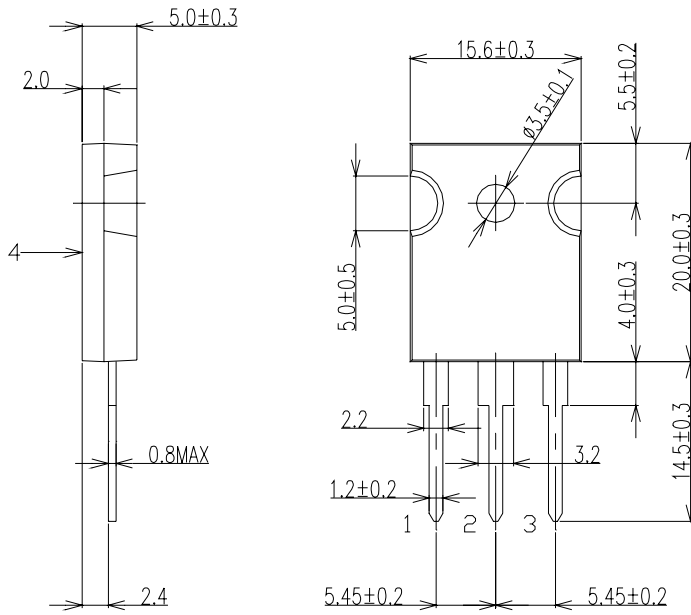
*1:Anode Terminals 1 and 3 Connected

Electrical • Thermal Characteristics

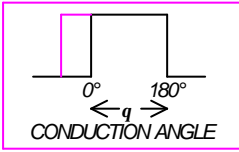
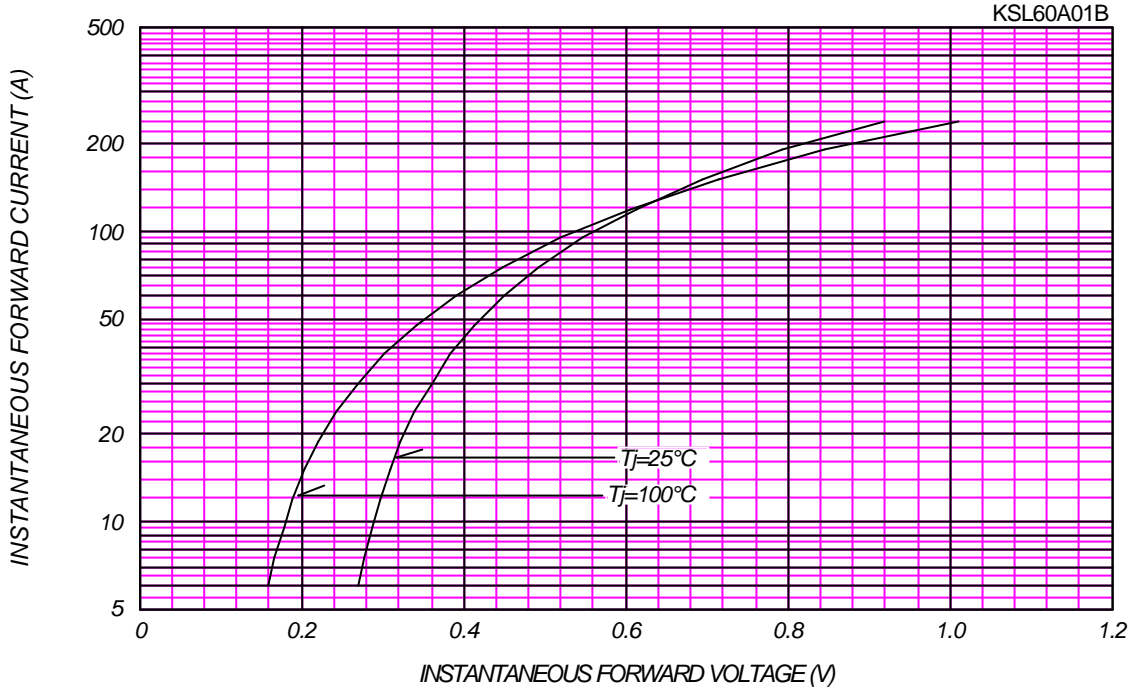
| Characteristics | Symbol | Conditions | Min. | Typ. | Max. | Unit |
|---------------------------------------|---------------|---|------|------|------|---------------------------|
| Peak Reverse Current | I_{RM} | $T_j= 25^\circ\text{C}, V_{RM}= V_{RRM}$ | - | - | 40 | mA |
| Peak Forward Voltage *1 | V_{FM} | $T_j= 25^\circ\text{C}, I_{FM}= 60 \text{ A}$ | - | - | 0.45 | V |
| Thermal Resistance Junction to Case | $R_{th(j-c)}$ | Junction to Case | - | - | 0.75 | $^\circ\text{C}/\text{W}$ |

*1:Anode Terminals 1 and 3 Connected

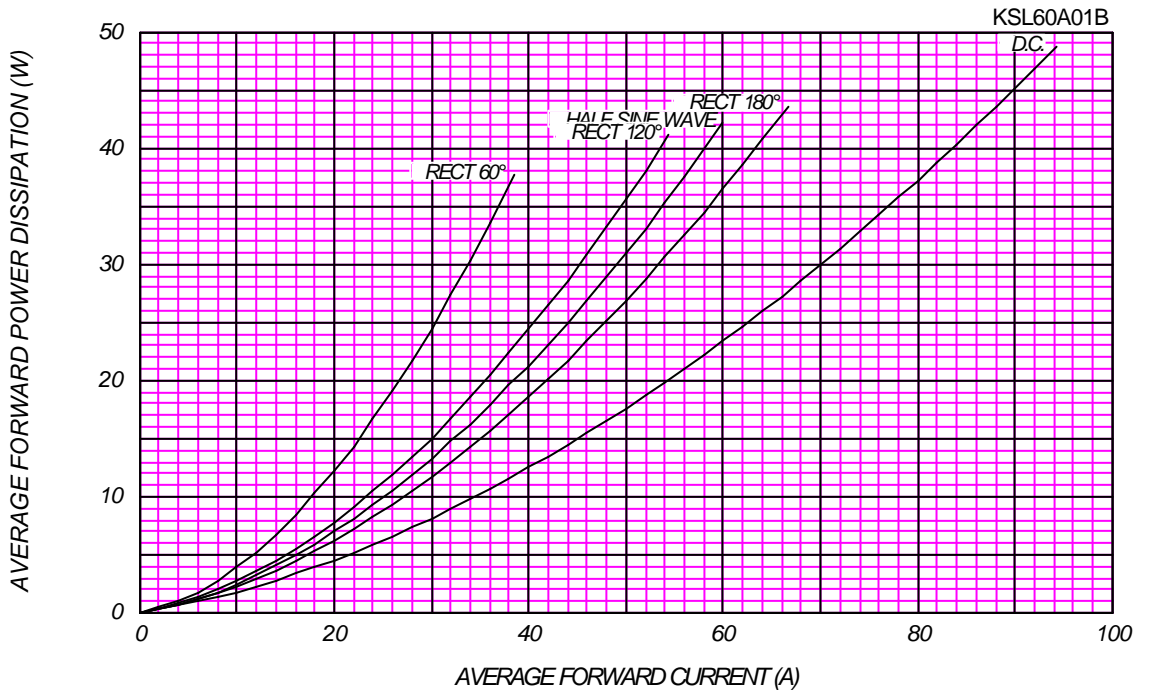
KSL60A01B OUTLINE DRAWING (Dimensions in mm)



FORWARD CURRENT VS. VOLTAGE



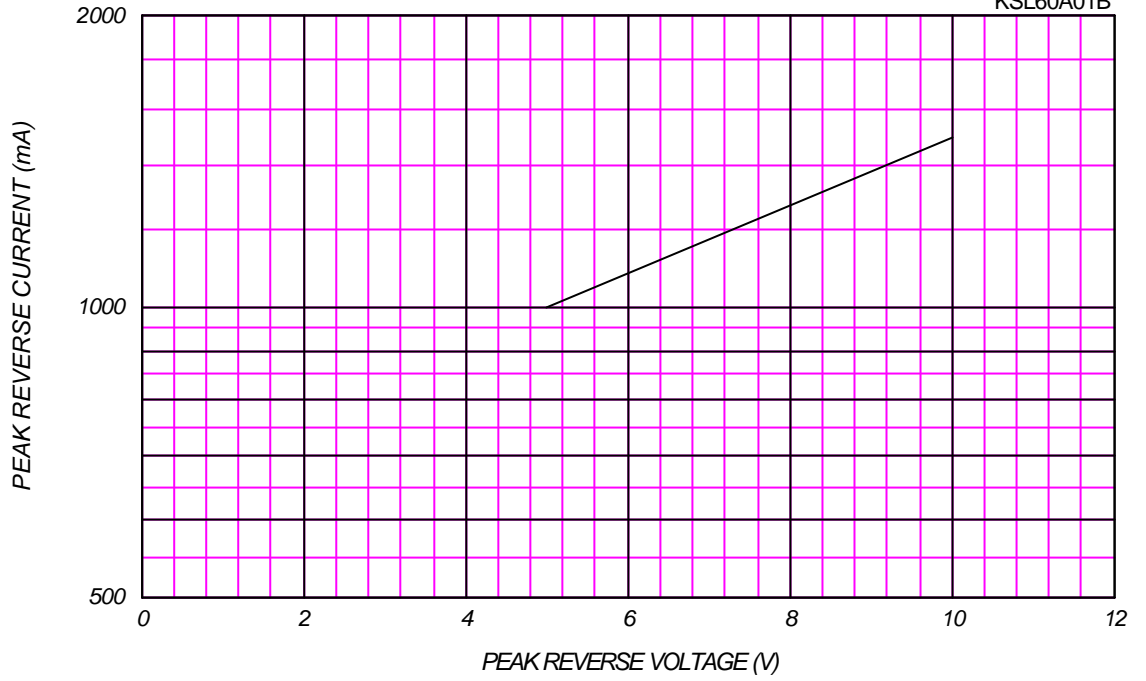
AVERAGE FORWARD POWER DISSIPATION



PEAK REVERSE CURRENT VS. PEAK REVERSE VOLTAGE

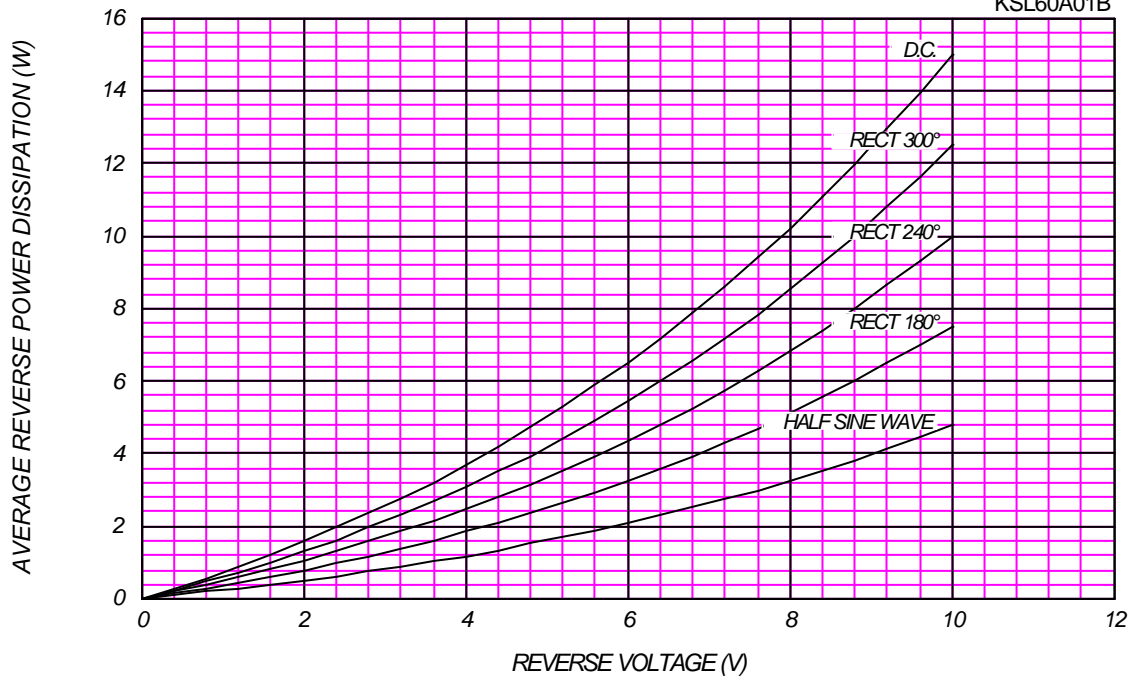
$T_j = 100\text{ }^\circ\text{C}$

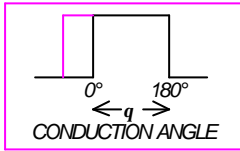
KSL60A01B



AVERAGE REVERSE POWER DISSIPATION

KSL60A01B

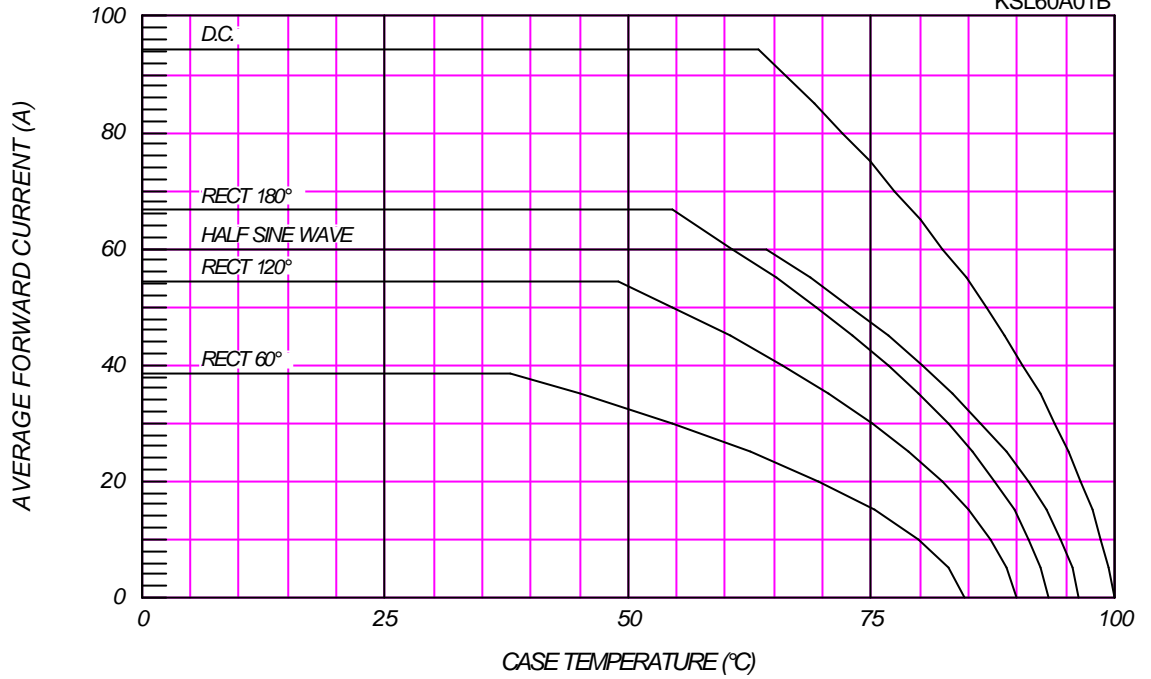




AVERAGE FORWARD CURRENT VS. CASE TEMPERATURE

$V_{RM}=10V$

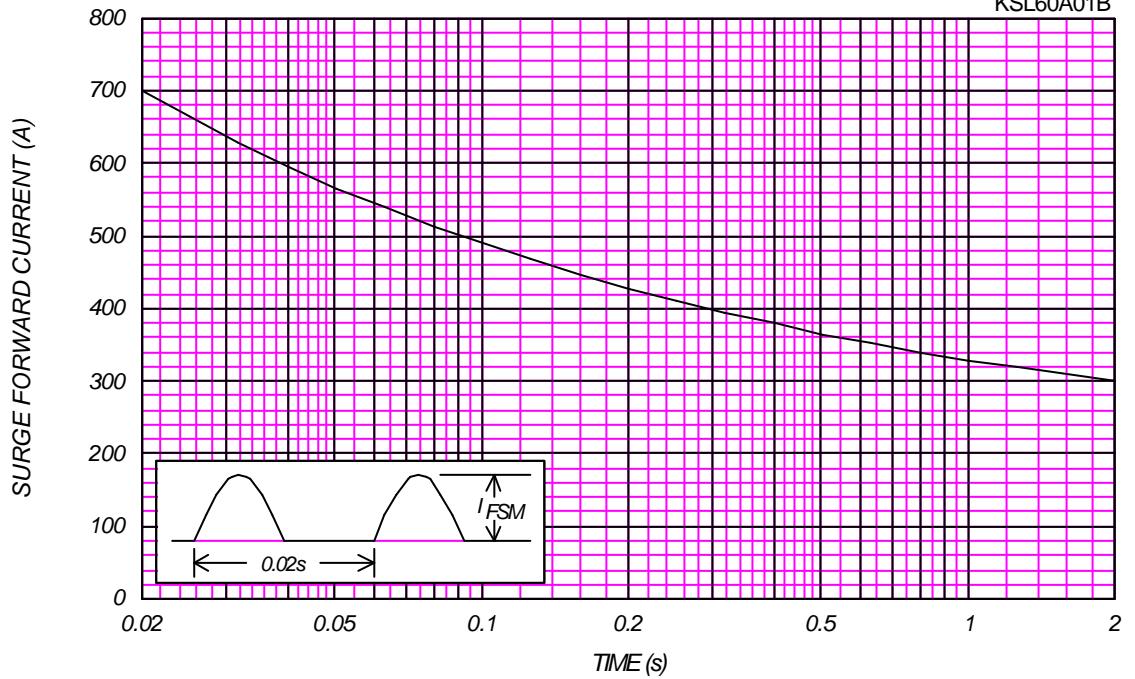
KSL60A01B



SURGE CURRENT RATINGS

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

KSL60A01B



JUNCTION CAPACITANCE VS. REVERSE VOLTAGE

$T_j=25^\circ\text{C}$, $V_m=20\text{mV}_{\text{RMS}}$, $f=100\text{kHz}$, Typical Value

KSL60A01B

