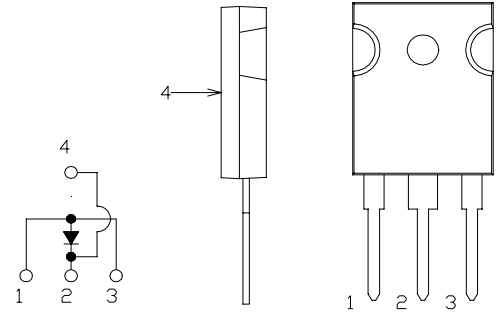


SBD Type : KSL60A01B

OUTLINE 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			$\text{N}\cdot\text{m}$

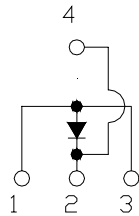
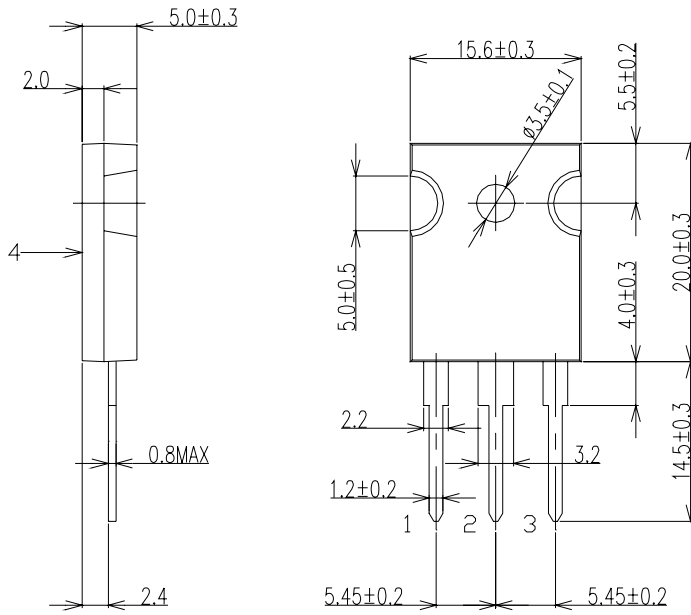
*1:Anode Terminals 1 and 3 Connected

Electrical • Thermal Characteristics

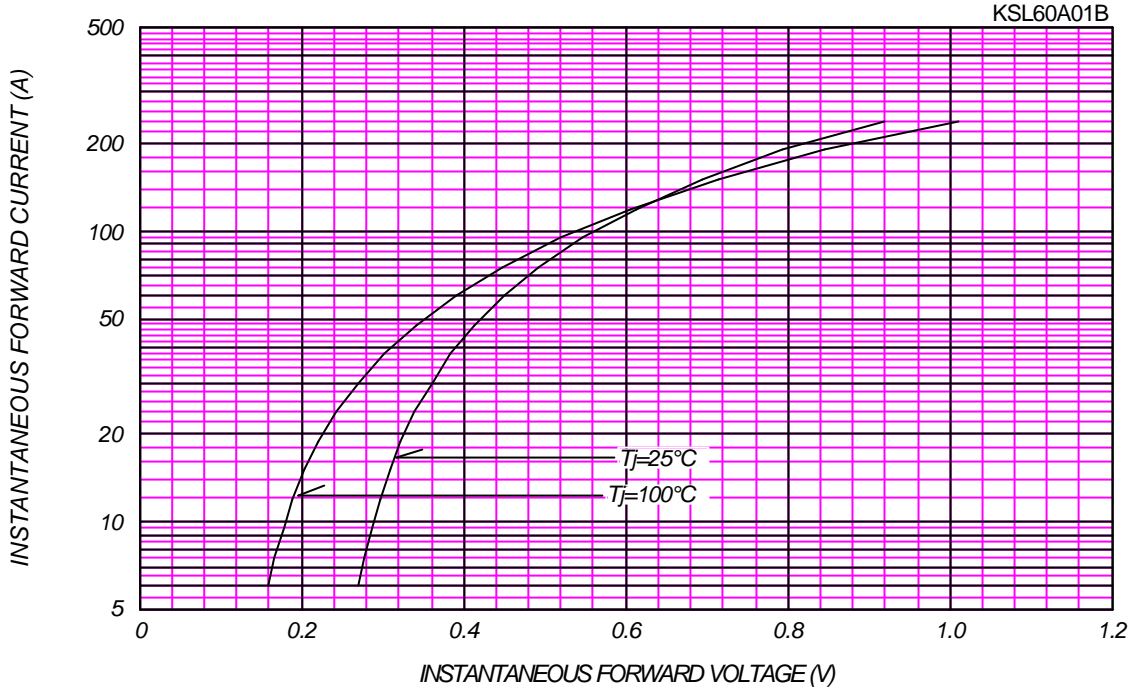
Characteristics	Symbol	Conditions	Min.	Typ.	Max.	Unit
Peak Reverse Current	I_{RM}	$T_j= 25^\circ\text{C}, V_{RM}= V_{RRM}$	-	-	40	mA
Peak Forward Voltage *1	V_{FM}	$T_j= 25^\circ\text{C}, I_{FM}= 60 \text{ A}$	-	-	0.45	V
Thermal Resistance Junction to Case	$R_{th(j-c)}$	Junction to Case	-	-	0.75	$^\circ\text{C}/\text{W}$

*1:Anode Terminals 1 and 3 Connected

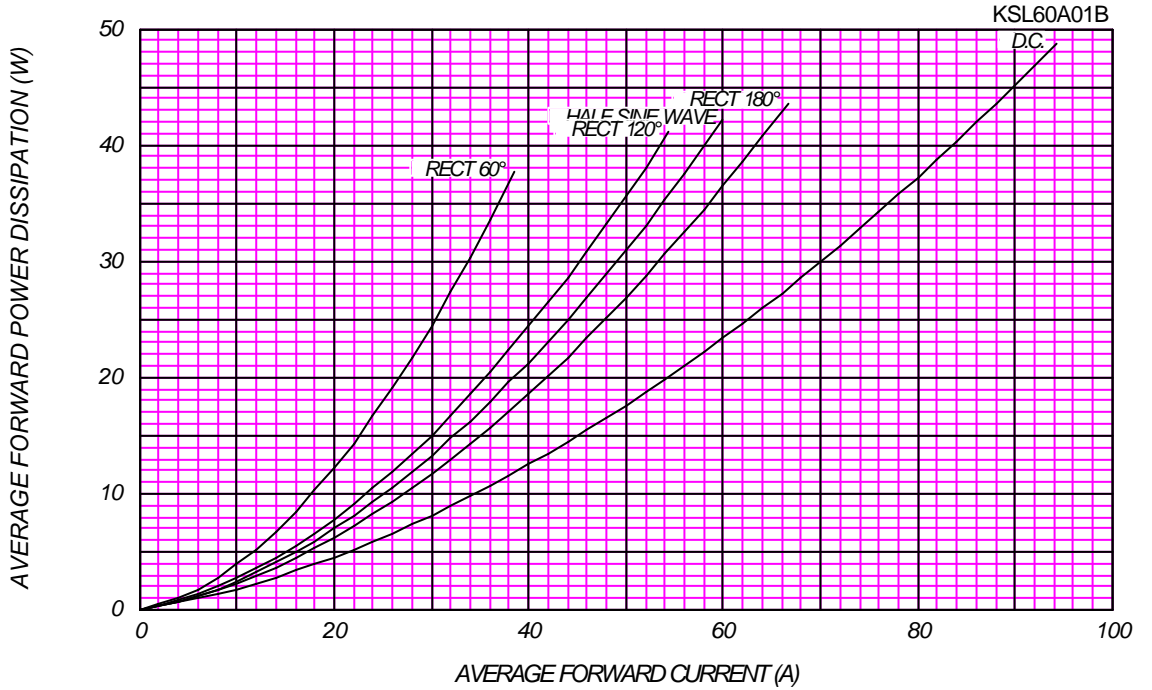
KSL60A01B OUTLINE DRAWING (Dimensions in mm)



FORWARD CURRENT VS. VOLTAGE



AVERAGE FORWARD POWER DISSIPATION



PEAK REVERSE CURRENT VS. PEAK REVERSE VOLTAGE

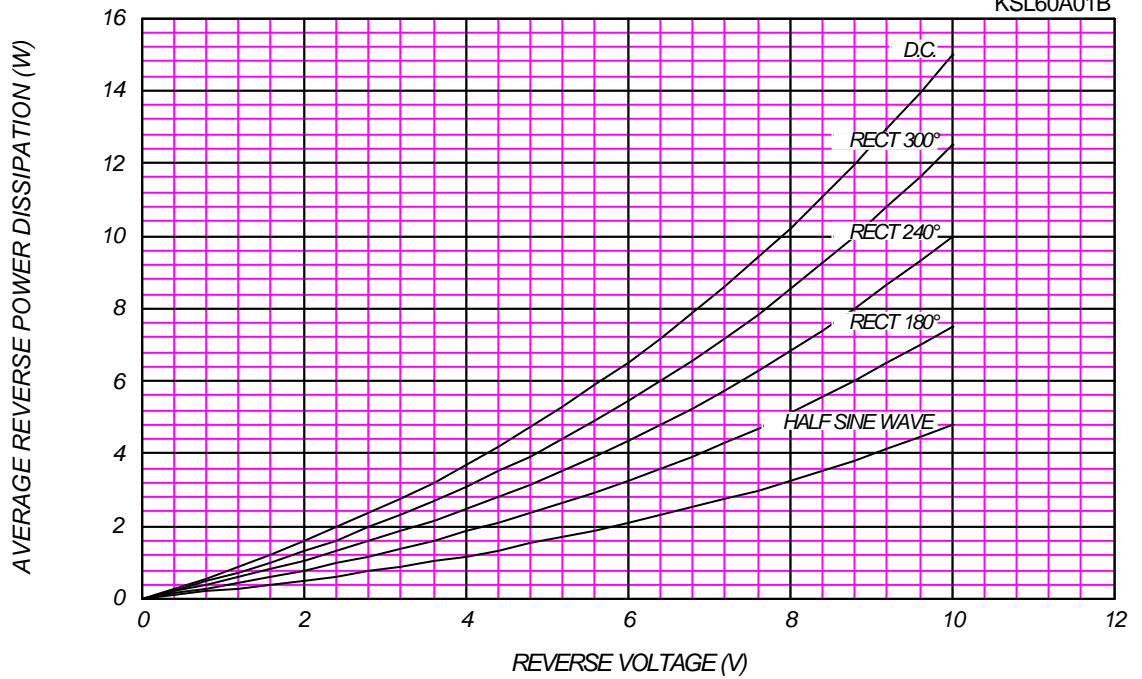
T_j = 100 °C

KSL60A01B



AVERAGE REVERSE POWER DISSIPATION

KSL60A01B

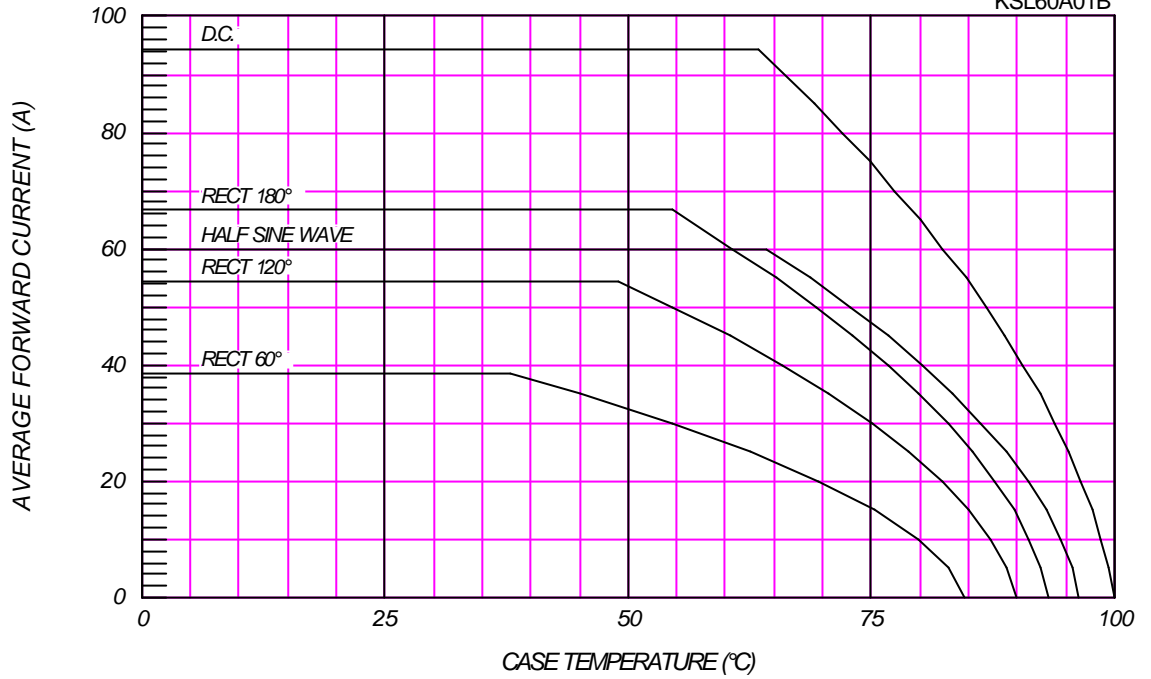




AVERAGE FORWARD CURRENT VS. CASE TEMPERATURE

$V_{RM}=10V$

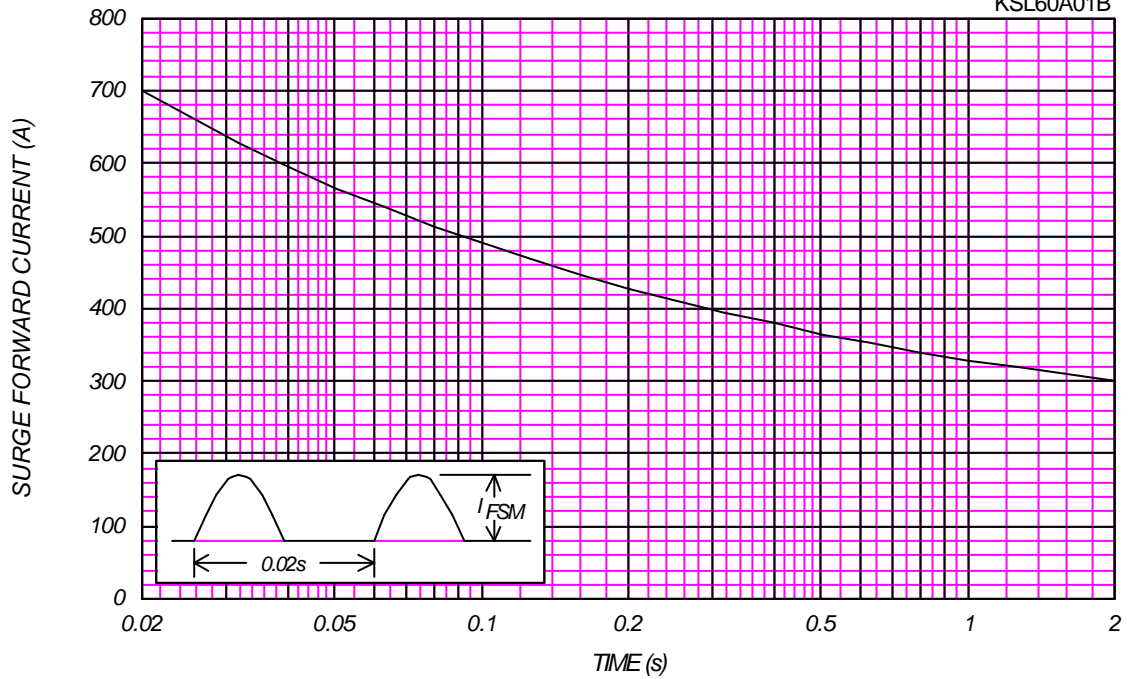
KSL60A01B



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

