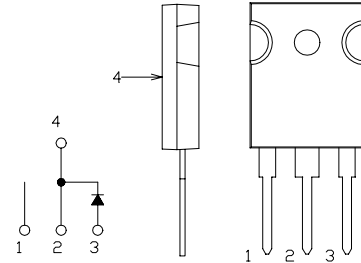


SBD Type : KSH15A10B

OUTLINE DRAWING

FEATURES

- * Similar to TO-247AC(TO-3P)Case
- * Low Forward Voltage Drop
- * Low Power Loss,High Efficiency
- * High Surge Current Capability
- * $T_j=150^{\circ}\text{C}$ operation



Maximum Ratings

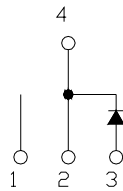
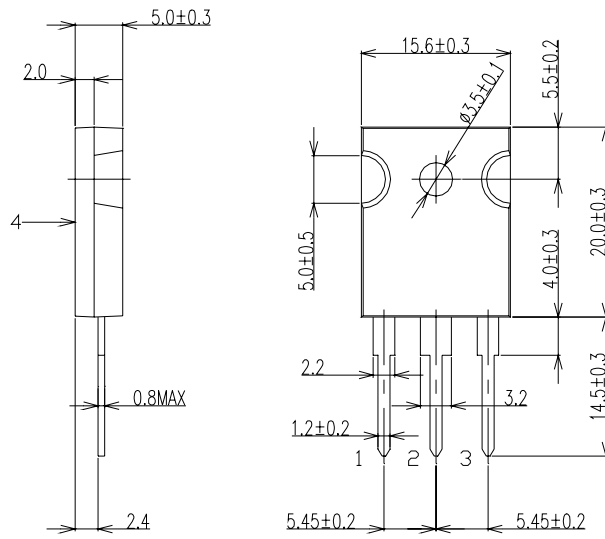
Approx Net Weight: 5.55g

Rating	Symbol	KSH15A10B		Unit
Repetitive Peak Reverse Voltage	V_{RRM}	100		V
Average Rectified Output Current	I_O	15	$T_c=120^{\circ}\text{C}$ 50 Hz half Sine Wave Resistive Load	A
RMS Forward Current	$I_{F(RMS)}$	23.5		A
Surge Forward Current	I_{FSM}	250	50Hz Half Sine Wave ,1cycle Non-repetitive	A
Operating JunctionTemperature Range	T_{jw}	-40 to +150		$^{\circ}\text{C}$
Storage Temperature Range	T_{stg}	-40 to +150		$^{\circ}\text{C}$
Mounting torque	Ftor	recommended torque = 0.5		N•m

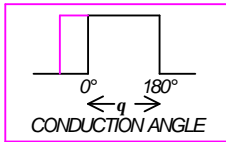
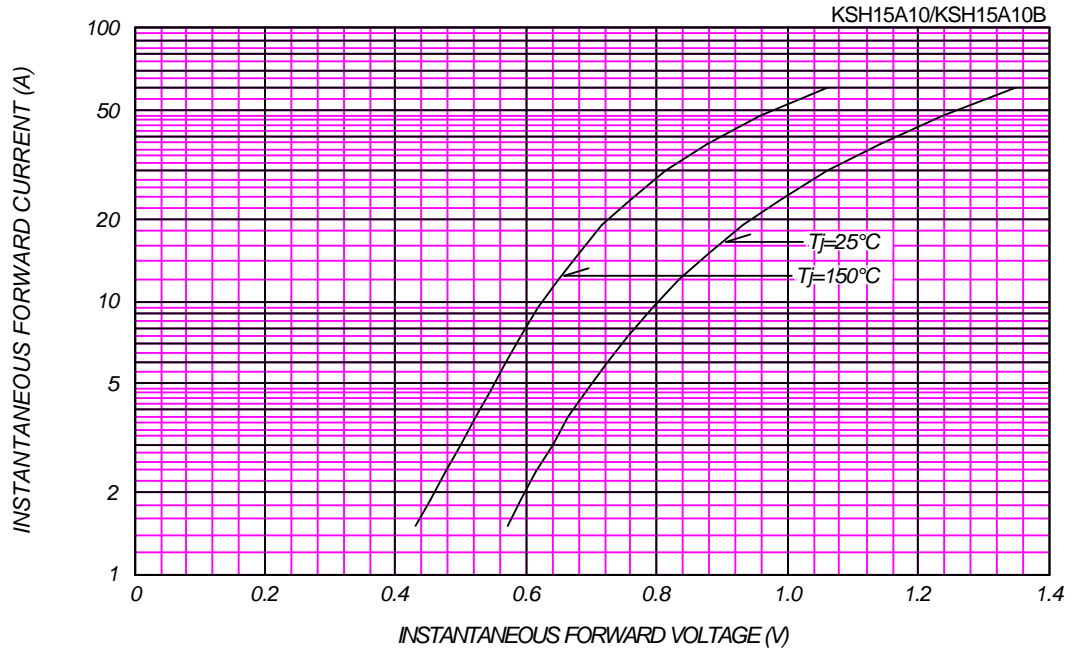
Electrical • Thermal Characteristics

Characteristics	Symbol	Conditions	Min.	Typ.	Max.	Unit
Peak Reverse Current	I_{RM}	$T_j= 25^{\circ}\text{C}$, $V_{RM}= V_{RRM}$	-	-	2.0	mA
Peak Forward Voltage	V_{FM}	$T_j= 25^{\circ}\text{C}$, $I_{FM}= 15\text{ A}$	-	-	0.88	V
Thermal Resistance	$R_{th(j-c)}$	Junction to Case	-	-	2.0	$^{\circ}\text{C}/\text{W}$

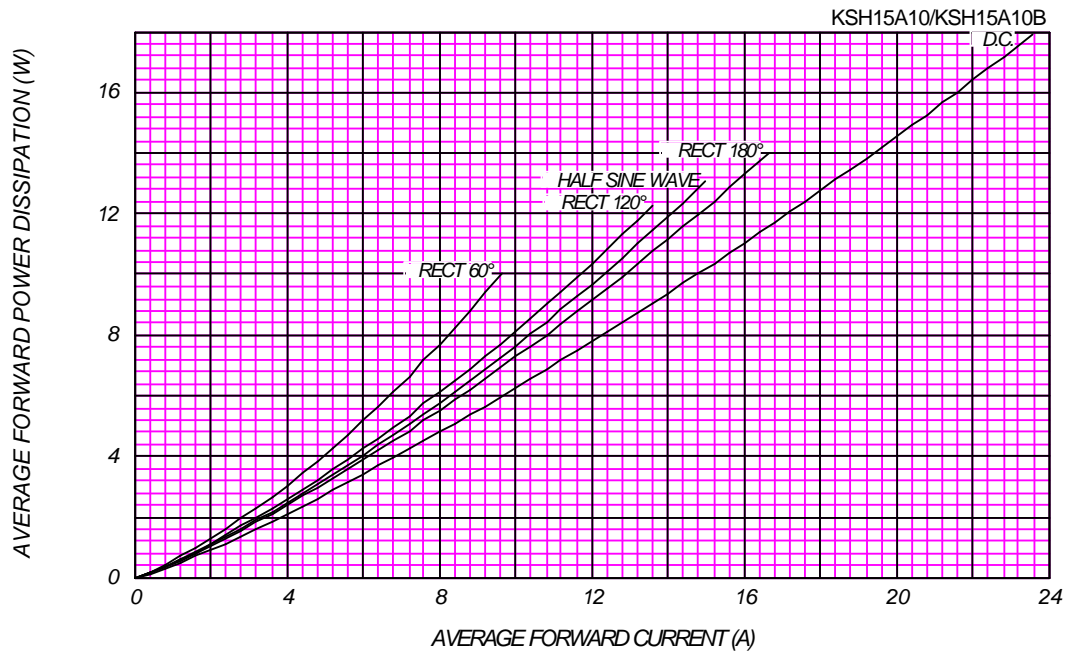
KSH15A10B OUTLINE DRAWING (Dimension in mm)



FORWARD CURRENT VS. VOLTAGE

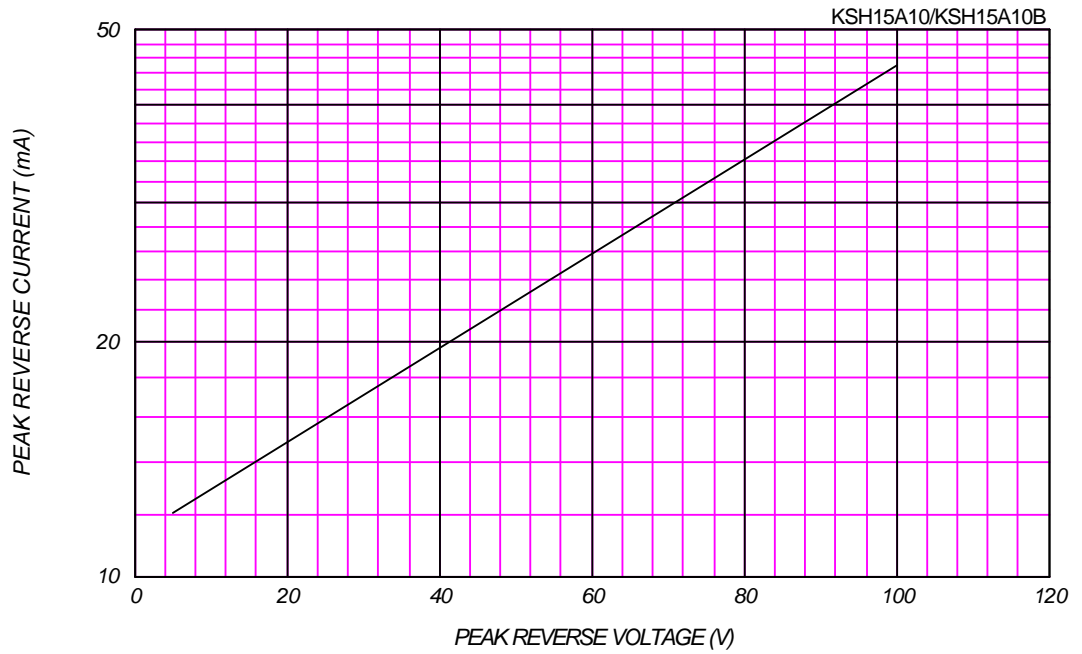


AVERAGE FORWARD POWER DISSIPATION

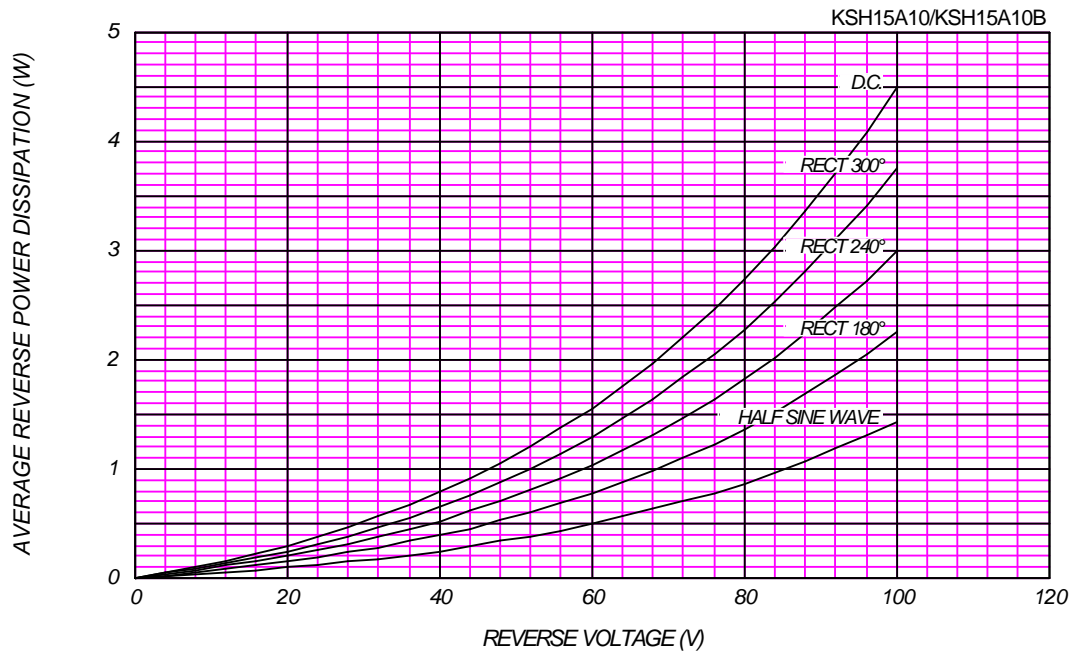


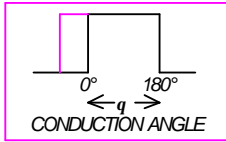
PEAK REVERSE CURRENT VS. PEAK REVERSE VOLTAGE

$T_j = 150^\circ\text{C}$



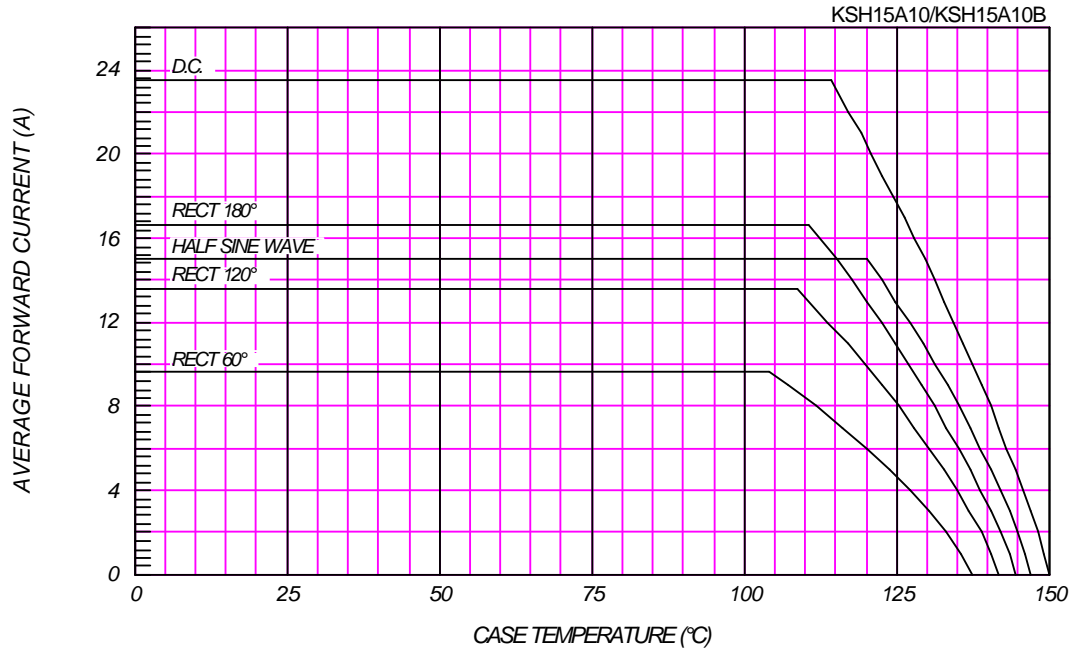
AVERAGE REVERSE POWER DISSIPATION





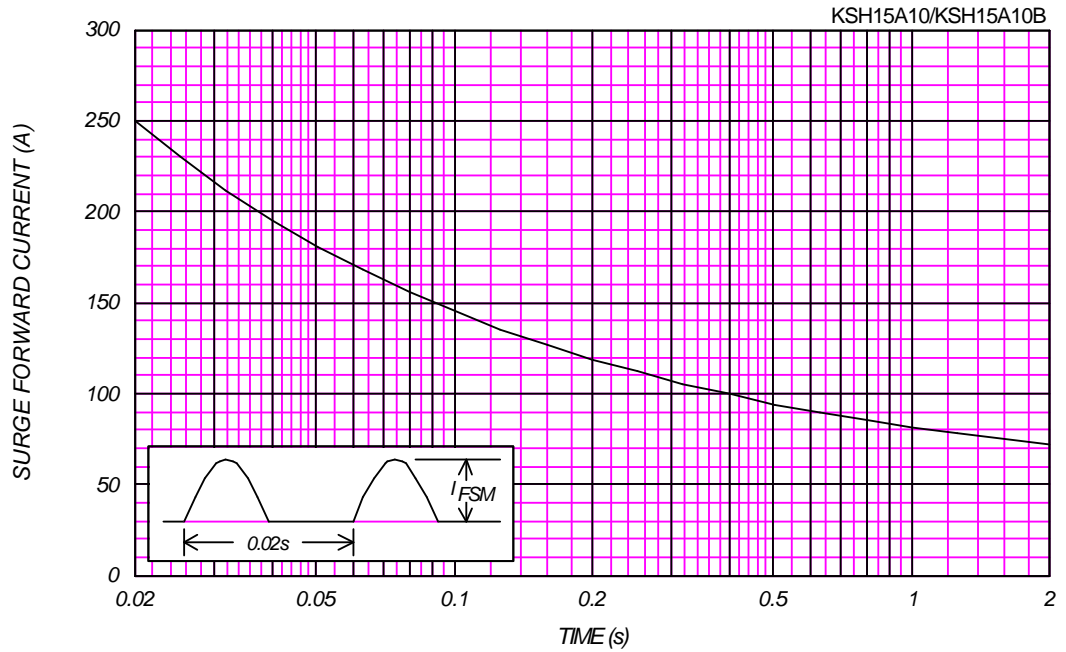
AVERAGE FORWARD CURRENT VS. CASE TEMPERATURE

$V_{RM} = 100V$



SURGE CURRENT RATINGS

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



JUNCTION CAPACITANCE VS. REVERSE VOLTAGE

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

KSH15A10/KSH15A10B

