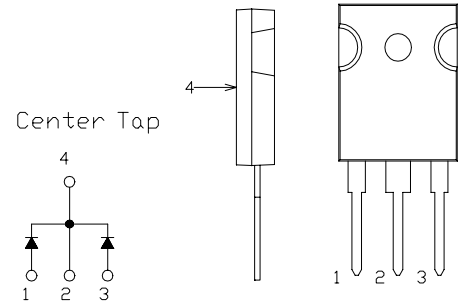


# SBD    Type : KCH30A10

OUTLINE DRAWING

## FEATURES

- \* Similar to TO-247AC(TO-3P)Case
- \* Dual Diodes – Cathode Common
- \* 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	KCH30A10			Unit
Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	100			V
Average Rectified Output Current	I <sub>O</sub>	30	Tc=111℃	50 Hz Full Sine Wave Resistive Load	A
RMS Forward Current	I <sub>F(RMS)</sub>	33.3			A
Surge Forward Current	I <sub>FSM</sub>	250	50Hz Full Sine Wave ,1cycle Non-repetitive		A
Operating JunctionTemperature Range	T <sub>jw</sub>	-40 to +150			℃
Storage Temperature Range	T <sub>stg</sub>	-40 to +150			℃
Mounting torque	F <sub>tor</sub>	recommended torque = 0.5			N•m

## Electrical • Thermal Characteristics

Characteristics	Symbol	Conditions	Min.	Typ.	Max.	Unit
Peak Reverse Current	$I_{RM}$	$T_j= 25^{\circ}\text{C}$ , $V_{RM}= V_{RRM}$ per Arm	-	-	2	mA
Peak Forward Voltage	$V_{FM}$	$T_j=25^{\circ}\text{C}$ , $I_{FM}= 15\text{A}$ per Arm	-	-	0.88	V
Thermal Resistance	$R_{th(j-c)}$	Junction to Case	-	-	1.3	$^{\circ}\text{C}/\text{W}$

