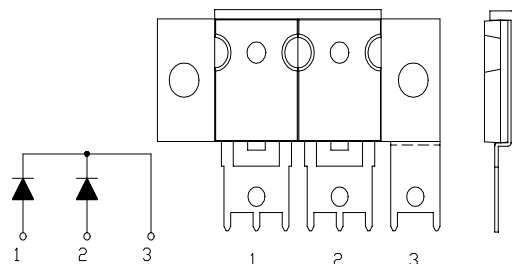


# SBD Type : C120P04QE

## 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 Capability
- \*T<sub>j</sub>=150 °C operation



## Maximum Ratings

Approx Net Weight: 30g

Rating	Symbol	C120P04QE			Unit
Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	40			V
Non-repetitive Peak Reverse Voltage	V <sub>RSM</sub>	45			V
Average Rectified Output Current	I <sub>O</sub>	120	T <sub>c</sub> =97°C	50 Hz Full Sine Wave Resistive Load	A
RMS Forward Current	I <sub>F(RMS)</sub>	133			A
Surge Forward Current	I <sub>FSM</sub>	800	50Hz Full Sine Wave ,1cycle Non-repetitive		A
Operating JunctionTemperature Range	T <sub>jw</sub>	-40 to +150			°C
Storage Temperature Range	T <sub>stg</sub>	-40 to +150			°C
Mounting torque	F <sub>tor</sub>	Anode,Kathode Lead recommended torque 0.5			N•m
		Kathode Base recommended torque 2.4			

## Electrical • Thermal Characteristics

Characteristics	Symbol	Conditions	Min.	Typ.	Max.	Unit
Peak Reverse Current	I <sub>RM</sub>	T <sub>j</sub> = 25°C, V <sub>RM</sub> = V <sub>RRM</sub> per arm	-	-	40	mA
Peak Forward Voltage	V <sub>FM</sub>	T <sub>j</sub> = 25°C, I <sub>FM</sub> = 60 A per arm	-	-	0.55	V
Thermal Resistance (Junction to Case)	R <sub>th(j-c)</sub>	Junction to Case	-	-	0.45	°C/W

### C120P04QE OUTLINE DRAWING (Dimensions in mm)

