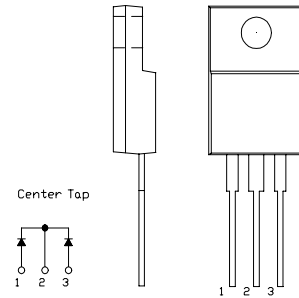


# SBD Type : FCQ10A03L

OUTLINE DRAWING

**FEATURES**

- \*Similar to TO-220AB Case
- \*Fully Molded Isolation
- \*Dual Diodes – Cathode Common
- \*Extremely Low Forward Voltage Drop
- \*Low Power Loss,High Efficiency
- \*High Surge Capability
- \*T<sub>j</sub>=150 °C operation
- \*Wire-Bonded technology


**Maximum Ratings**

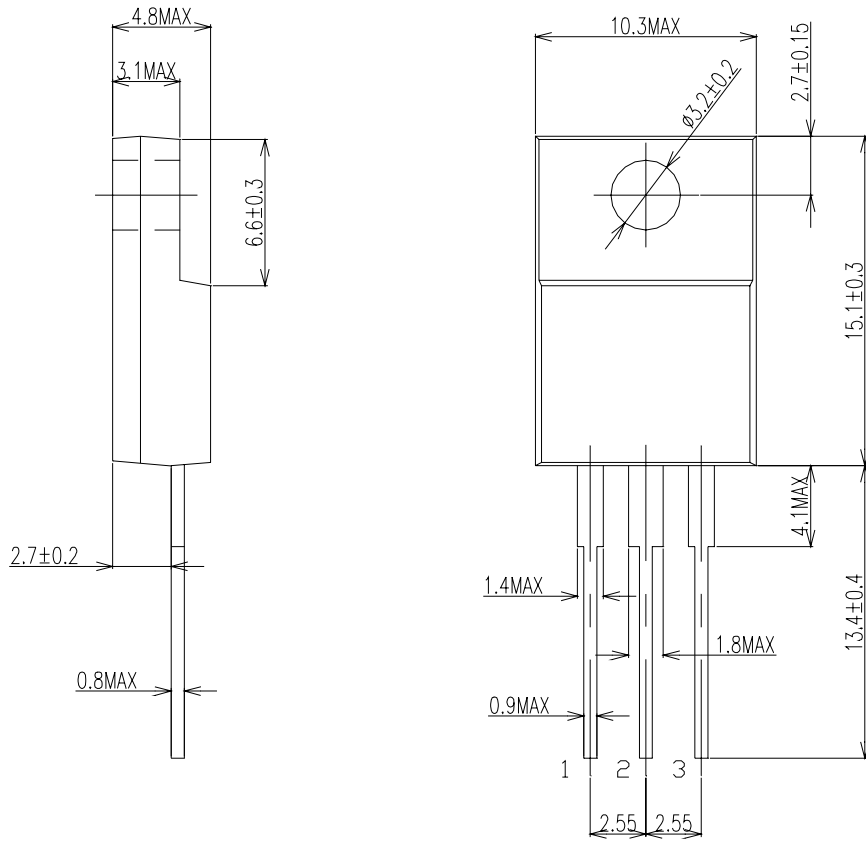
Approx Net Weight: 1.75g

Rating	Symbol	FCQ10A03L		Unit
Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	30		V
Repetitive Peak Surge Reverse Voltage	V <sub>RRSM</sub>	35(pulse width ≤ 1μs duty ≤ 1/50)		V
Average Rectified Output Current	I <sub>O</sub>	10	T <sub>c</sub> =116°C 50 Hz Full Sine Wave Resistive Load	A
RMS Forward Current	I <sub>F(RMS)</sub>	11.1		A
Surge Forward Current	I <sub>FSM</sub>	120	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>	recommended torque = 0.5		N•m

**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	-	-	5	mA
Peak Forward Voltage	V <sub>FM</sub>	T <sub>j</sub> = 25°C, I <sub>FM</sub> = 5 A per arm	-	-	0.47	V
Thermal Resistance	R <sub>th(j-c)</sub>	Junction to Case	-	-	3	°C /W
	R <sub>th(c-f)</sub>	Cace to Fin	-	-	1.5	°C /W

FCQ10A03L OUTLINE DRAWING (Dimensions in mm)



Center Tap

