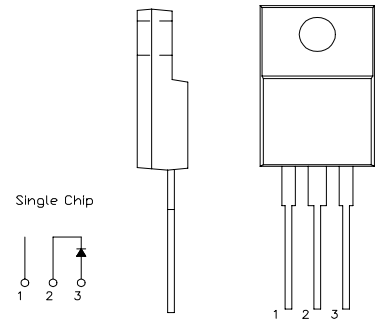


SBD Type : FSQ05A03LB

OUTLINE DRAWING

FEATURES

- *Similar to TO-220AB Case
- *Fully Molded Isolation
- *Extremely Low Forward Voltage Drop
- *Low Power Loss, High Efficiency
- *High Surge Capability
- * $T_j=150\text{ }^\circ\text{C}$ operation



Maximum Ratings

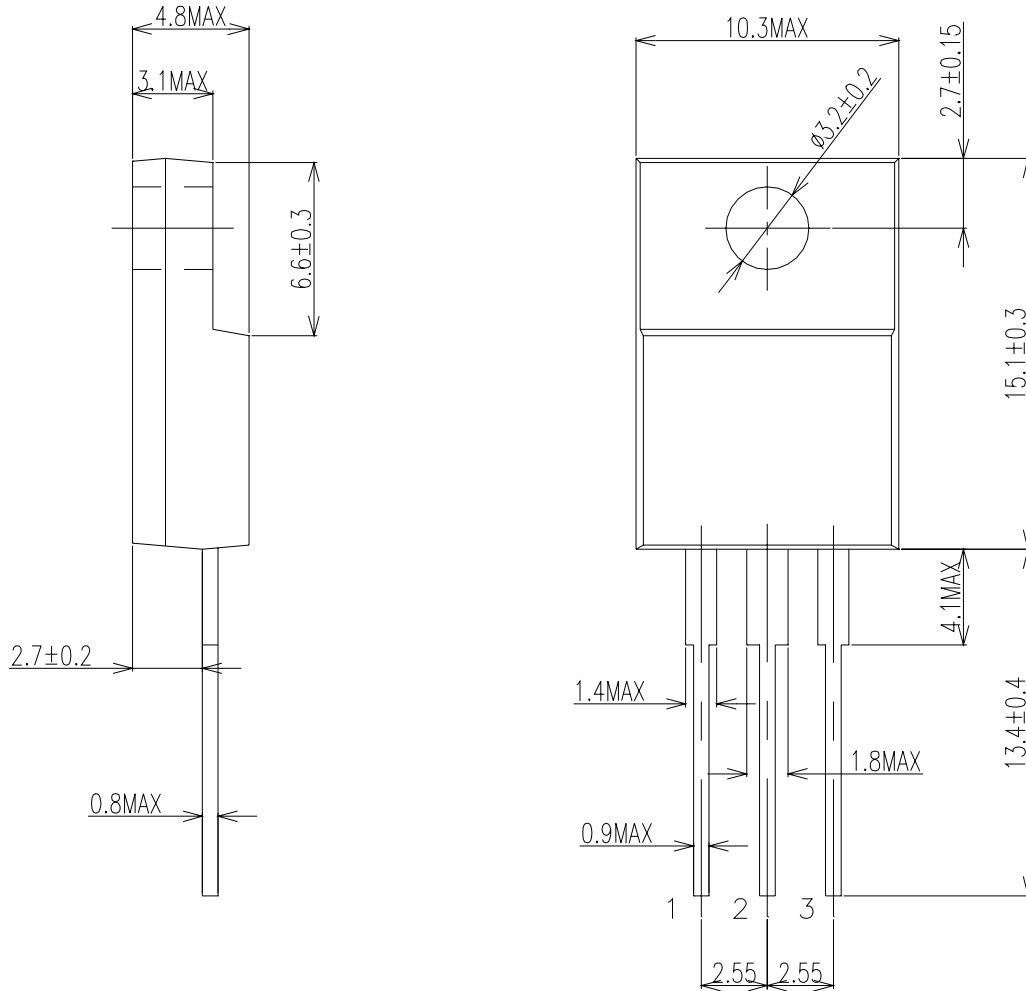
Approx Net Weight: 1.75g

Rating	Symbol	FSQ05A03LB		Unit
Repetitive Peak Reverse Voltage	V_{RRM}	30		V
Repetitive Peak Surge Reverse Voltage	V_{RRSM}	35(pulse width $\leq 1\mu\text{s}$ duty $\leq 1/50$)		V
Average Rectified Output Current	I_O	5	$T_c=122^\circ\text{C}$ 50 Hz half Sine Wave Resistive Load	A
RMS Forward Current	$I_{F(RMS)}$	7.85		A
Surge Forward Current	I_{FSM}	120	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	F_{tor}	recommended torque = 0.5		N•m

Electrical • Thermal Characteristics

Characteristics	Symbol	Conditions	Min.	Typ.	Max.	Unit
Peak Reverse Current	I_{RM}	$T_j= 25^\circ\text{C}$, $V_{RM}= V_{RRM}$	-	-	5	mA
Peak Forward Voltage	V_{FM}	$T_j= 25^\circ\text{C}$, $I_{FM}= 5\text{ A}$	-	-	0.47	V
Thermal Resistance	$R_{th(j-c)}$	Junction to Case	-	-	5	$^\circ\text{C}/\text{W}$
	$R_{th(c-f)}$	Case to Fin	-	-	1.5	$^\circ\text{C}/\text{W}$

FSQ05A03LB OUTLINE DRAWING (Dimension in mm)



Single Chip

