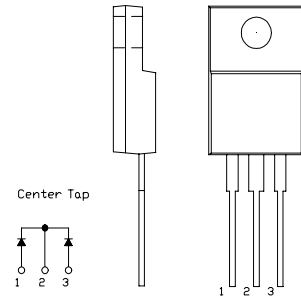


SBD Type : FCL30A015

OUTLINE DRAWING

FEATURES

- *TO-220AB Case
- *Fully Molded
- *Dual Diodes – Cathode Common
- *Extremely Low Forward Voltage Drop
- *Oring Diode
- *High Surge Capability



Maximum Ratings

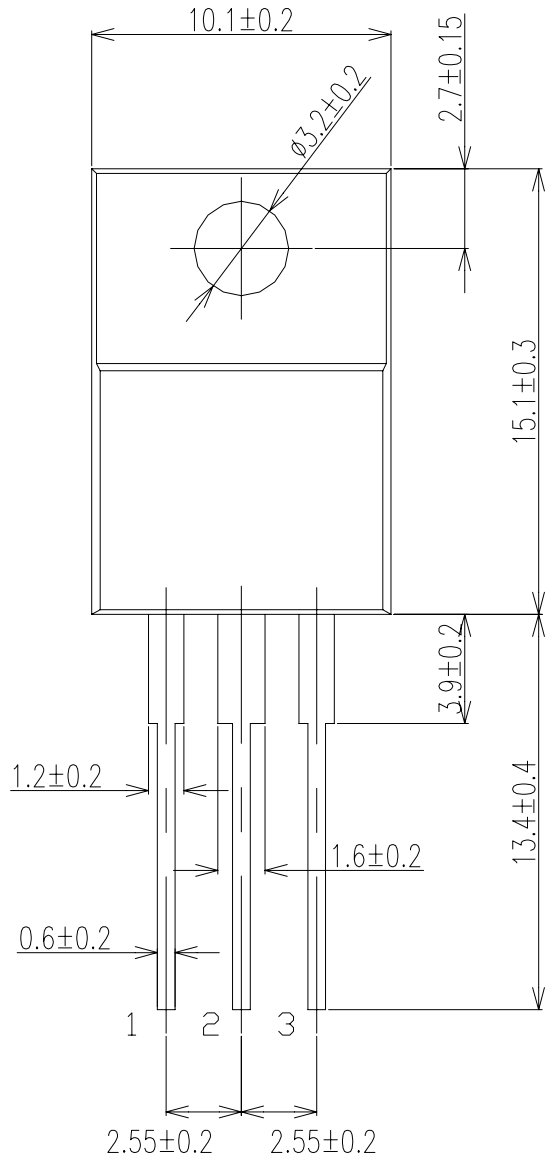
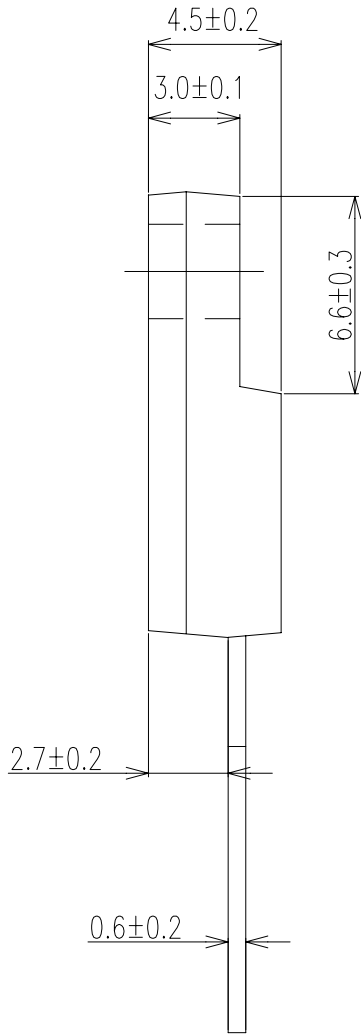
Approx Net Weight: 1.75g

Rating	Symbol	FCL30A015			Unit
Repetitive Peak Reverse Voltage	V _{RRM}	15			V
Average Rectified Output Current	I _O	30	Tc=78°C	50 Hz Full Sine Wave Resistive Load	A
RMS Forward Current	I _{F(RMS)}	33.3			A
Surge Forward Current	I _{FSM}	250	50Hz Full Sine Wave ,1cycle Non-repetitive		A
Operating JunctionTemperature Range	T _{jw}	-40 to +125			°C
Storage Temperature Range	T _{stg}	-40 to +125			°C
Mounting torque	F _{tor}	recommended torque = 0.5			N•m

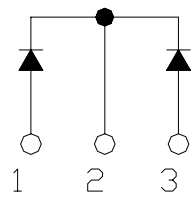
Electrical • Thermal Characteristics

Characteristics	Symbol	Conditions	Min.	Typ.	Max.	Unit
Peak Reverse Current	I_{RM}	$T_j= 25^{\circ}C, V_{RM}= V_{RRM}$ per arm	-	-	15	mA
Peak Forward Voltage	V_{FM}	$T_j= 25^{\circ}C, I_{FM}= 15 A$ per arm	-	-	0.42	V
Thermal Resistance	Rth(j-c)	Junction to Case	-	-	1.5	$^{\circ}C /W$
	Rth(c-f)	Cace to Fin	-	-	1.5	$^{\circ}C /W$

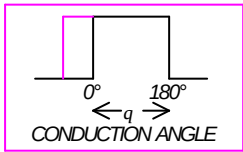
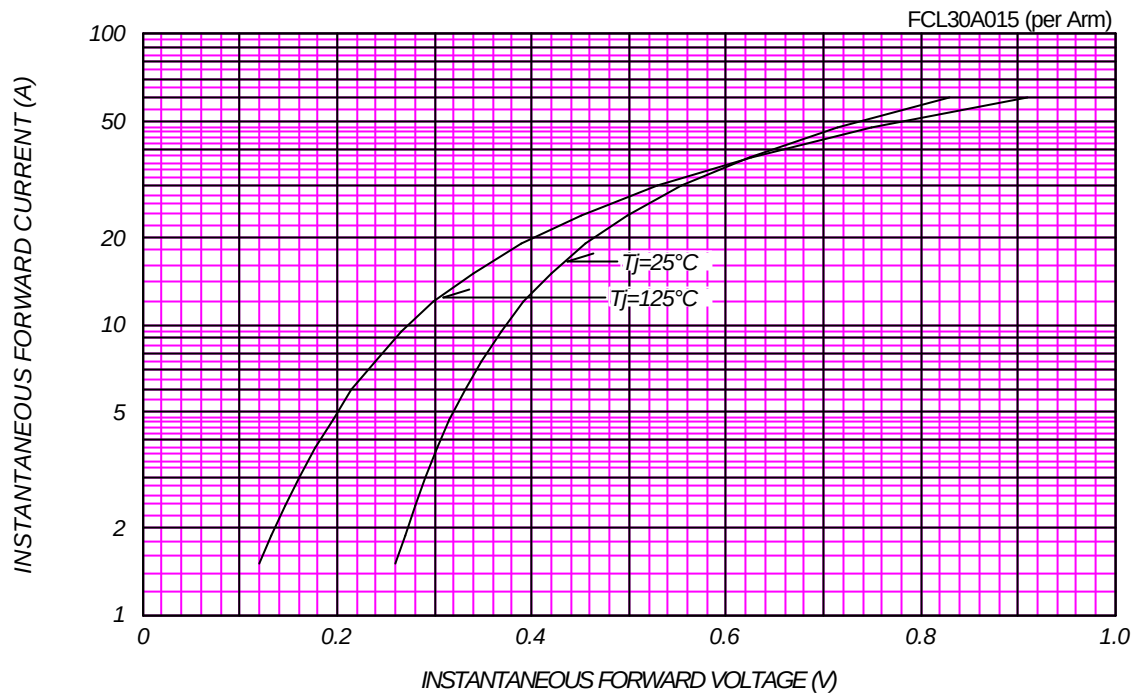
FCL_A_ OUTLINE DRAWING (Dimensions in mm)



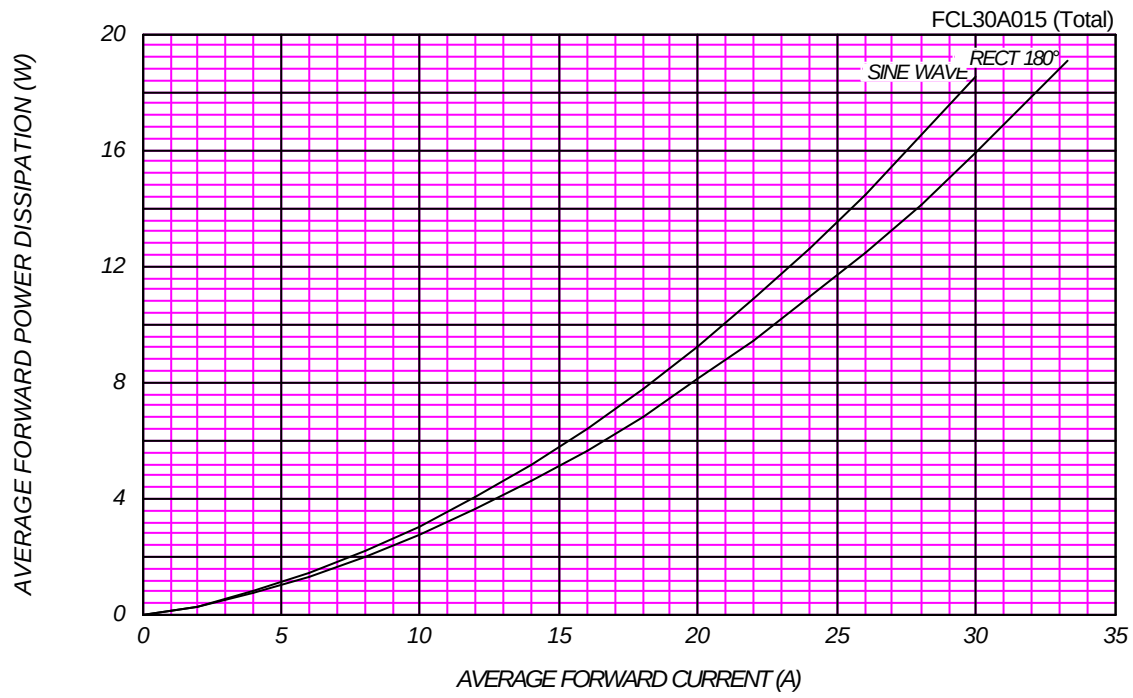
Center Tap



FORWARD CURRENT VS. VOLTAGE



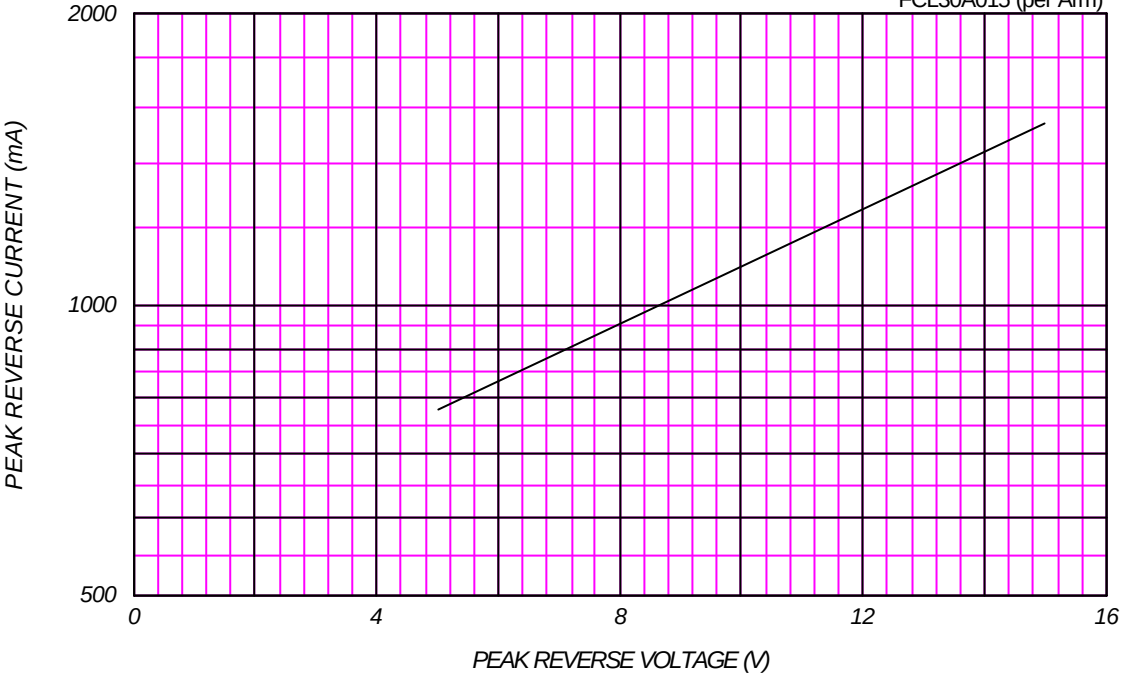
AVERAGE FORWARD POWER DISSIPATION



PEAK REVERSE CURRENT VS. PEAK REVERSE VOLTAGE

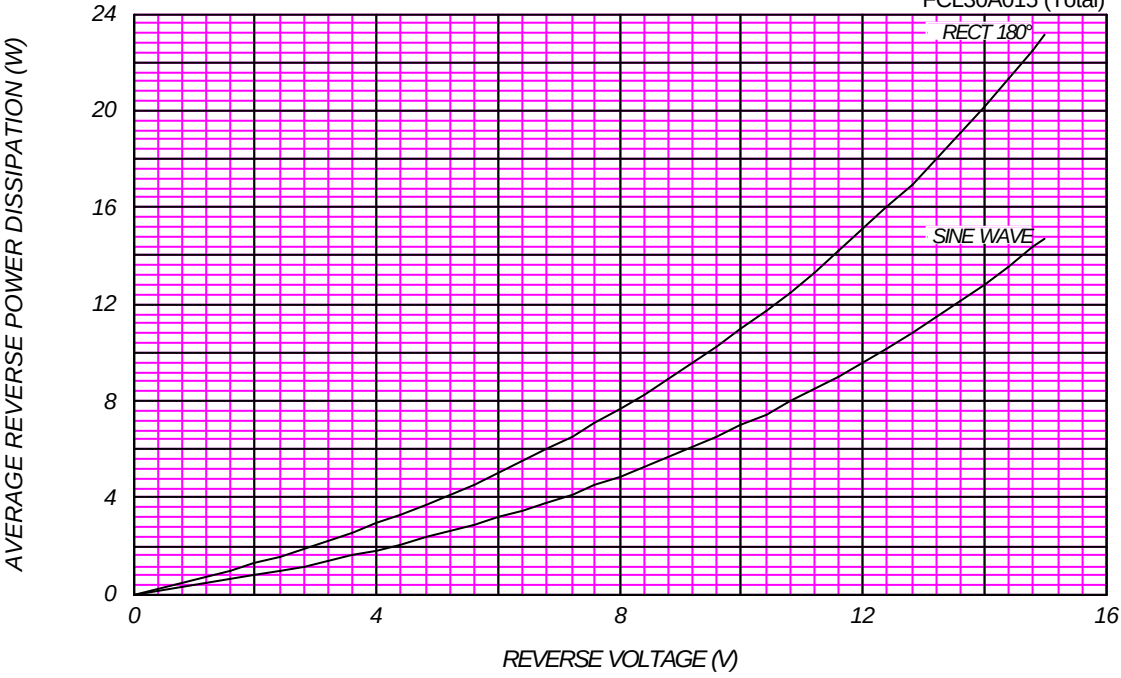
Tj= 125 °C

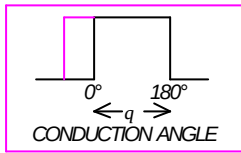
FCL30A015 (per Arm)



AVERAGE REVERSE POWER DISSIPATION

FCL30A015 (Total)

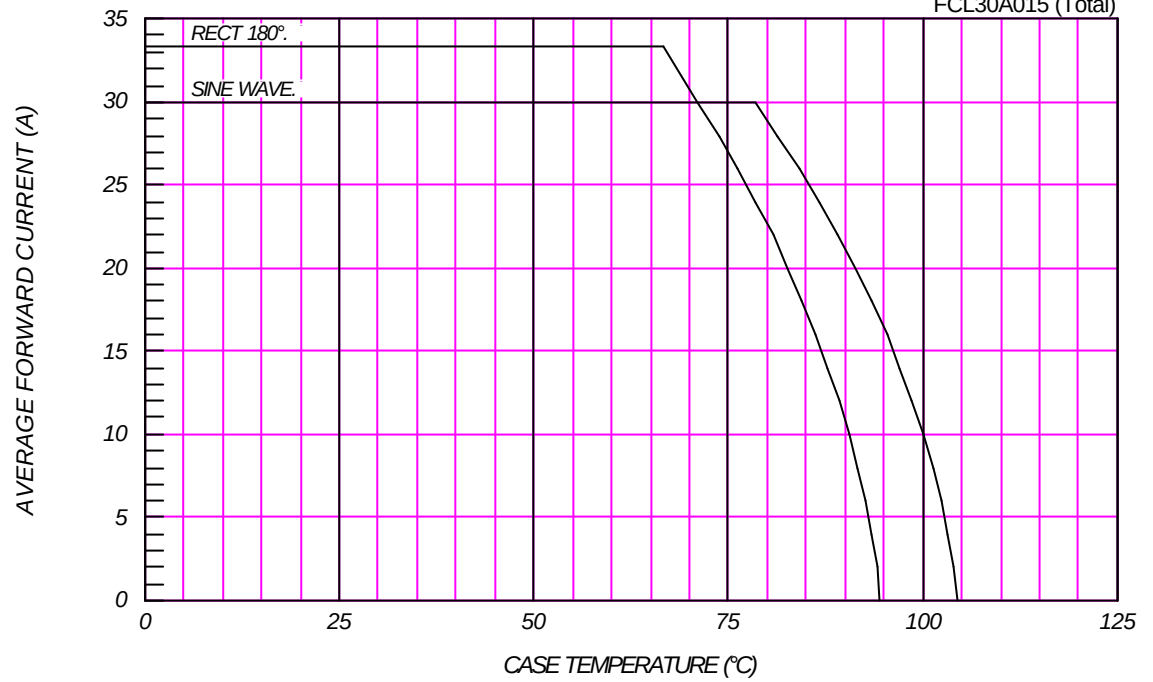




AVERAGE FORWARD CURRENT VS. CASE TEMPERATURE

$V_{RM}=15\text{ V}$

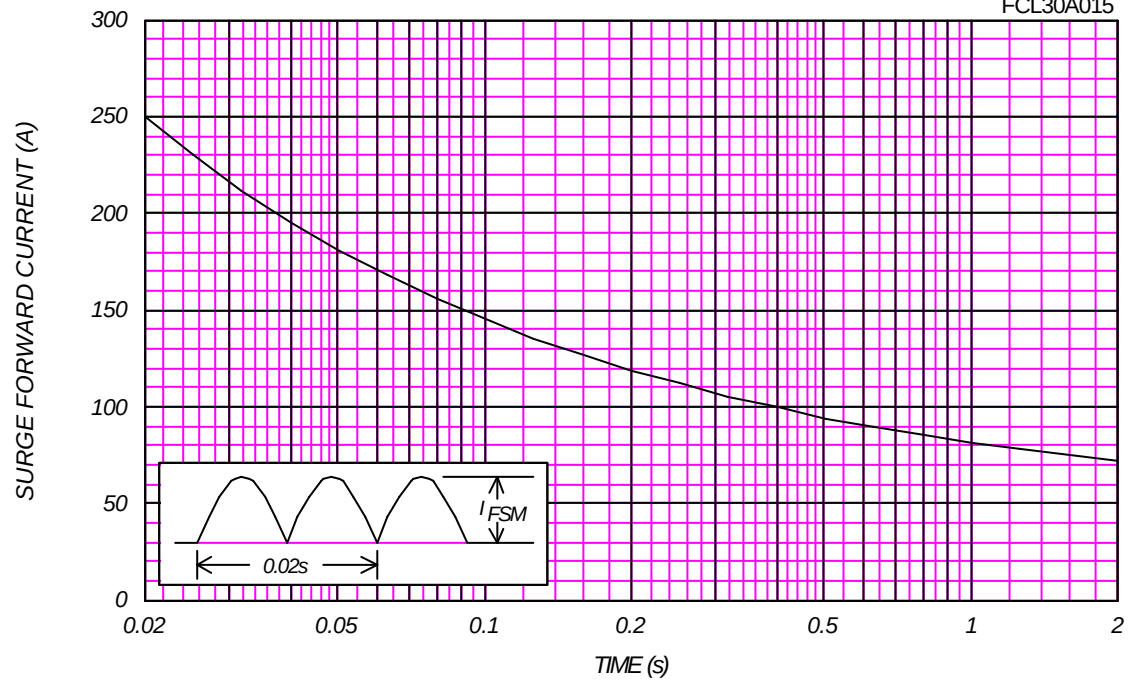
FCL30A015 (Total)



SURGE CURRENT RATINGS

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

FCL30A015



JUNCTION CAPACITANCE VS. REVERSE VOLTAGE

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

FCL30A015 (per Arm)

