

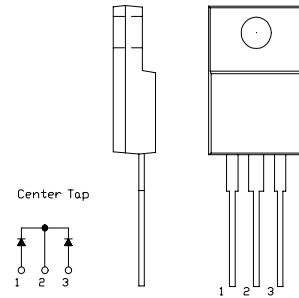
# SBD Type : FCH08A15

## OUTLINE DRAWING

**8A 150V Tj:150°C**

### FEATURES

- \*TO-220AB Case
- \*Fully Molded
- \*Dual Diodes – Cathode Common
- \*Low Forward Voltage Drop
- \*High Surge Capability
- \*Tj=150 °C operation



## Maximum Ratings

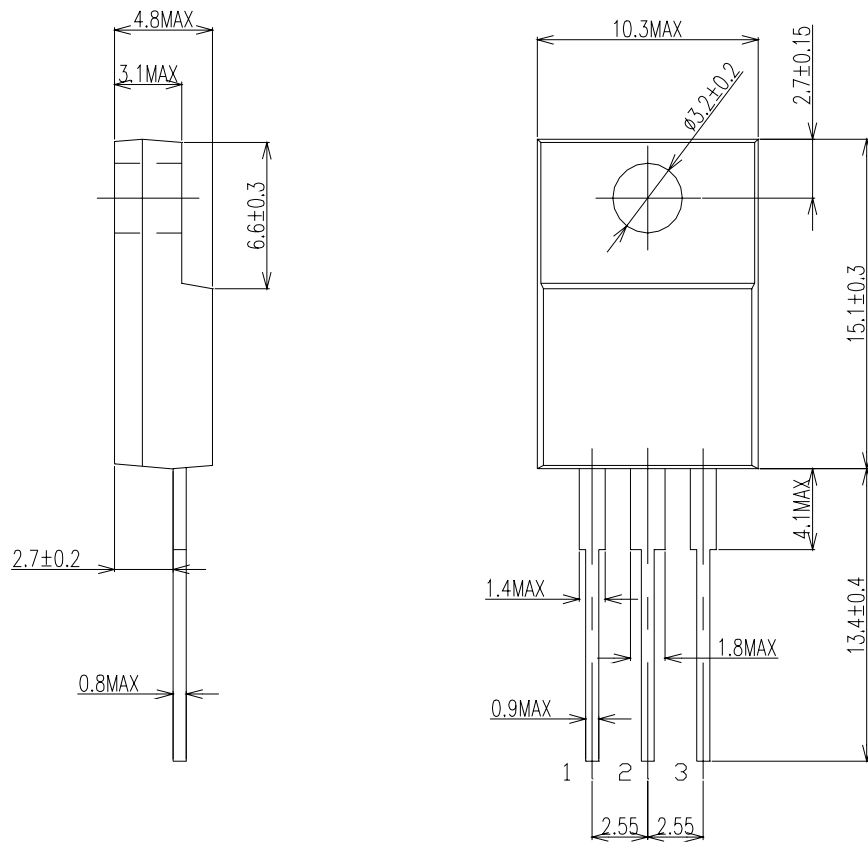
Approx Net Weight: 1.75g

Rating	Symbol	FCH08A15			Unit
Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	150			V
Average Rectified Output Current	I <sub>O</sub>	8	Tc=127°C	50 Hz Full Sine Wave Resistive Load	A
RMS Forward Current	I <sub>F(RMS)</sub>	8.8			A
Surge Forward Current	I <sub>FSM</sub>	125	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

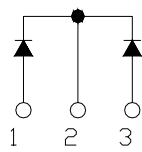
## Electrical • Thermal Characteristics

Characteristics	Symbol	Conditions	Min.	Typ.	Max.	Unit
Peak Reverse Current	$I_{RM}$	$T_j= 25^{\circ}\text{C}$ , $V_{RM}= V_{RRM}$ per Arm	-	-	1	mA
Peak Forward Voltage	$V_{FM}$	$T_j= 25^{\circ}\text{C}$ , $I_{FM}= 4\text{A}$ per Arm	-	-	0.9	V
Thermal Resistance	$R_{th(j-c)}$	Junction to Case	-	-	3.0	°C /W
	$R_{th(c-f)}$	Cace to Fin	-	-	1.5	°C /W

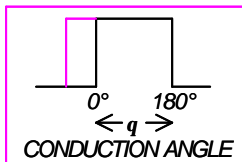
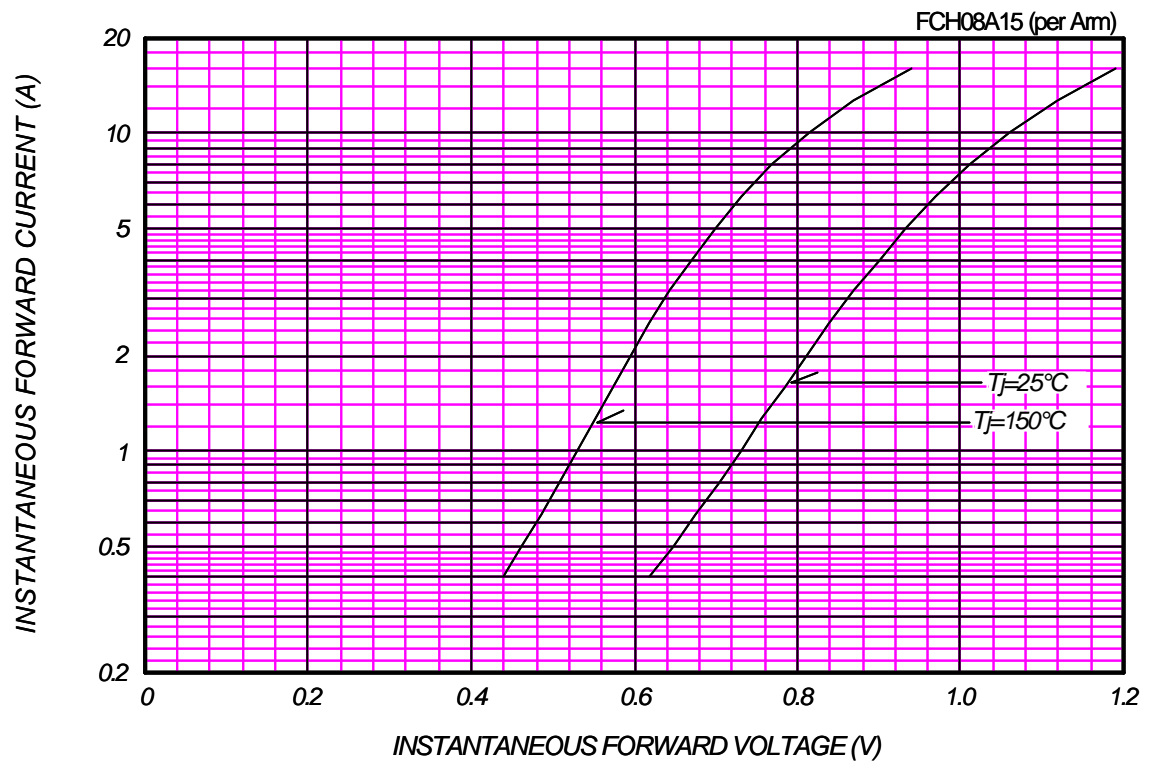
# FCHxxA OUTLINE DRAWING (Dimentions in mm)



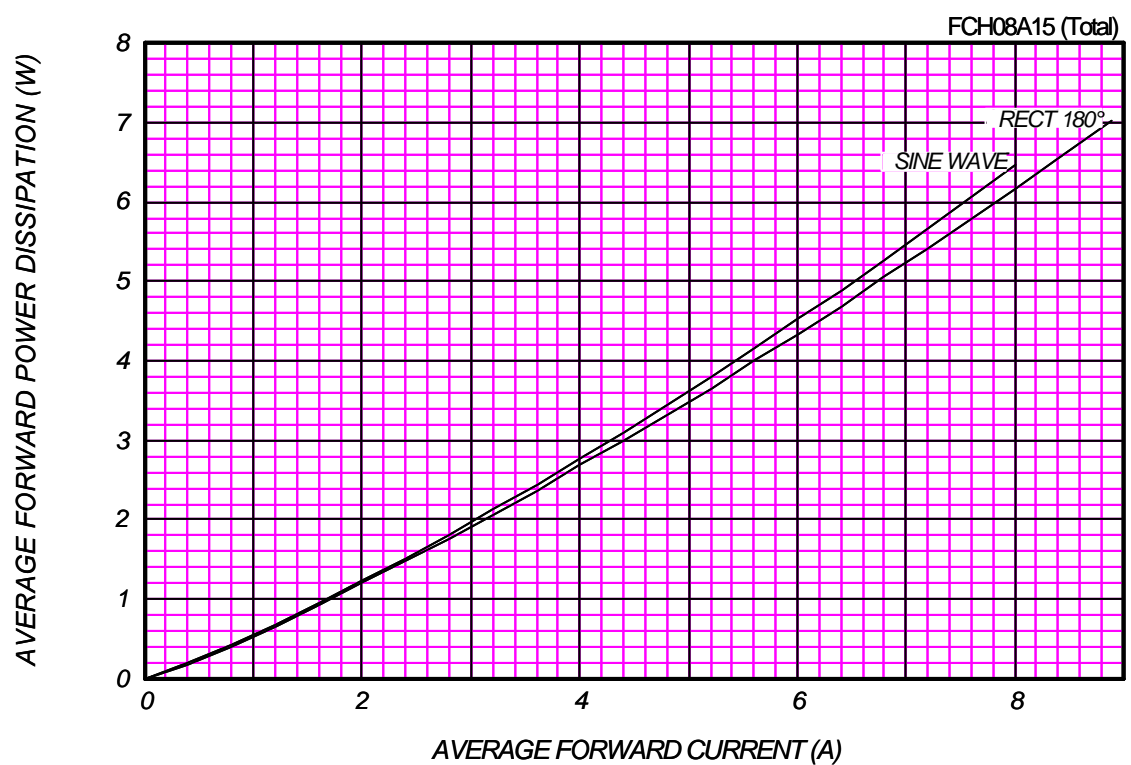
Center Tap



## FORWARD CURRENT VS. VOLTAGE



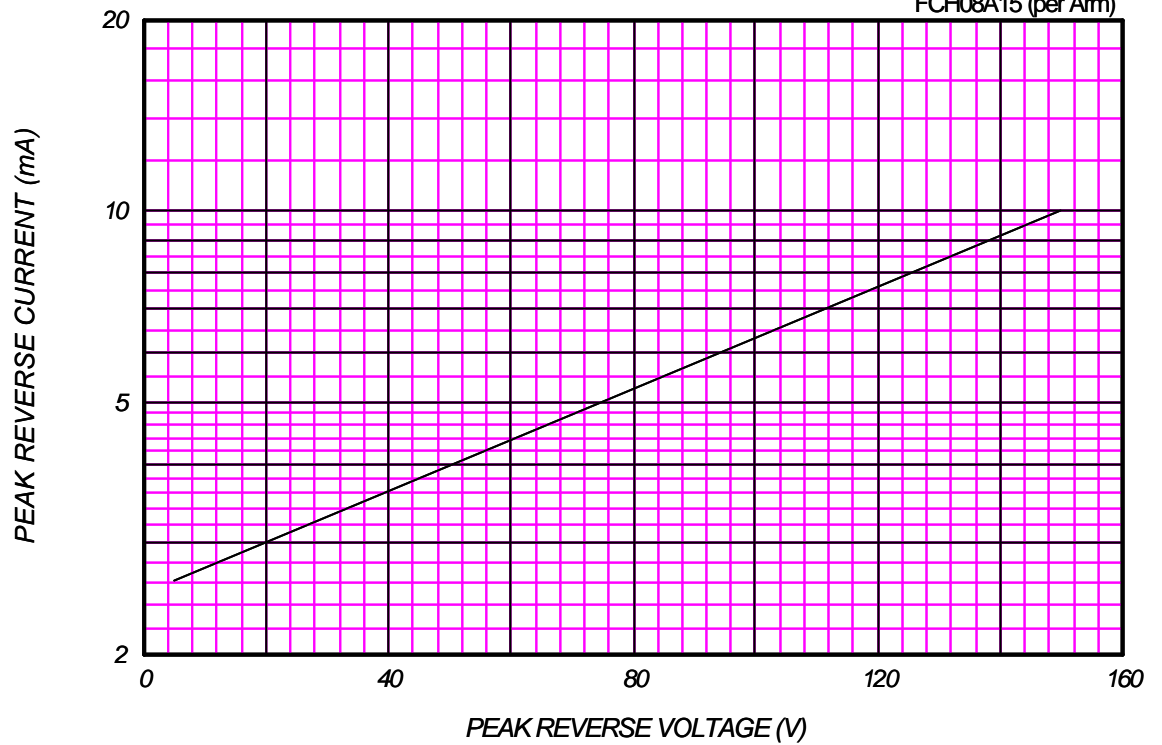
## AVERAGE FORWARD POWER DISSIPATION



### PEAK REVERSE CURRENT VS. PEAK REVERSE VOLTAGE

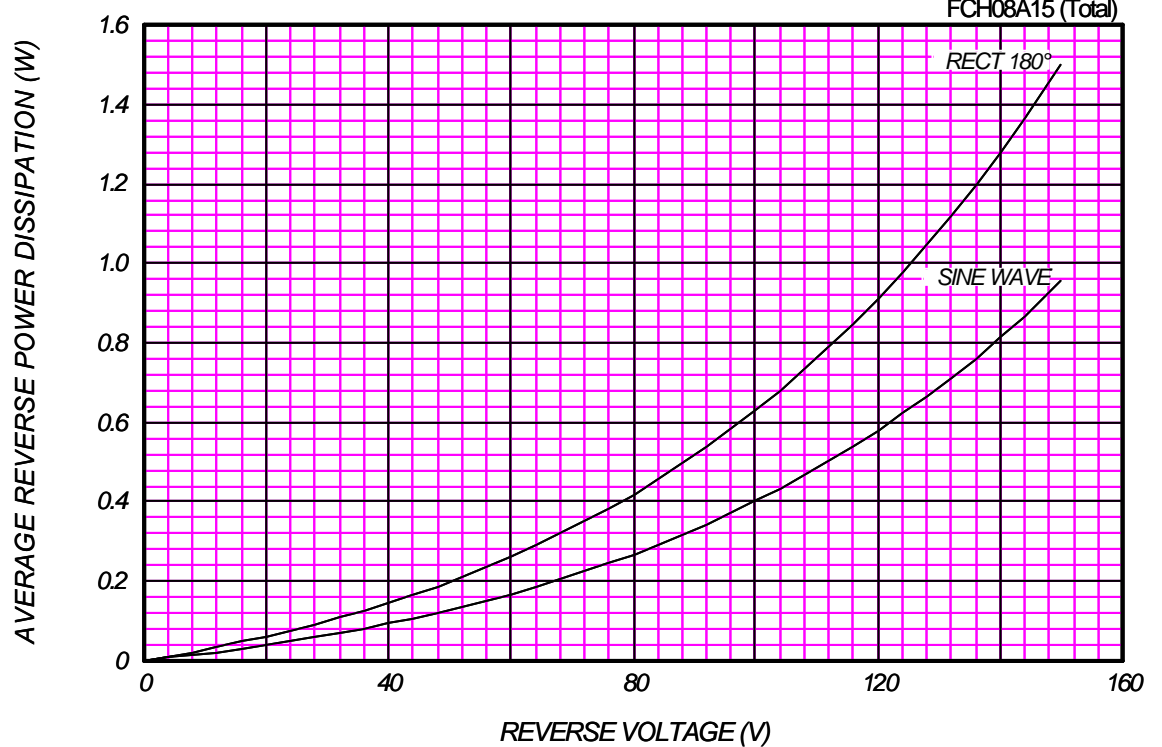
$T_J = 150^\circ\text{C}$

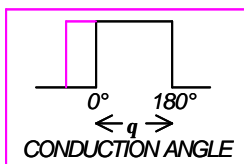
FCH08A15 (per Arm)



### AVERAGE REVERSE POWER DISSIPATION

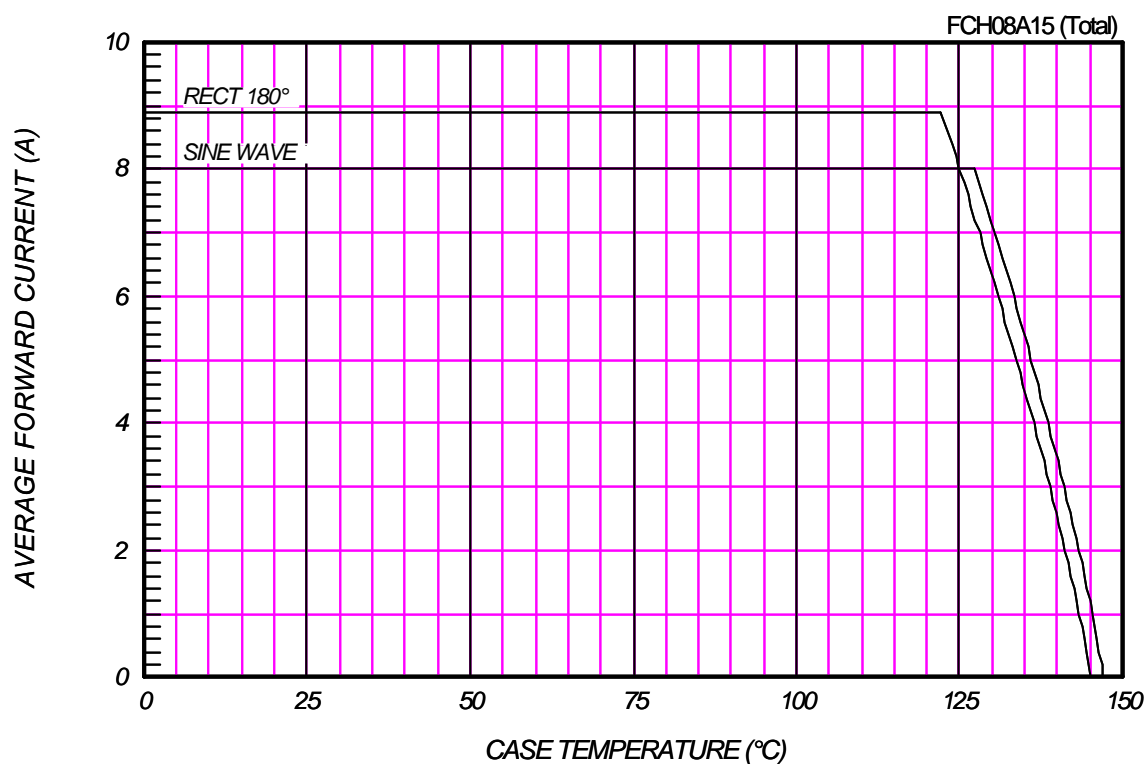
FCH08A15 (Total)





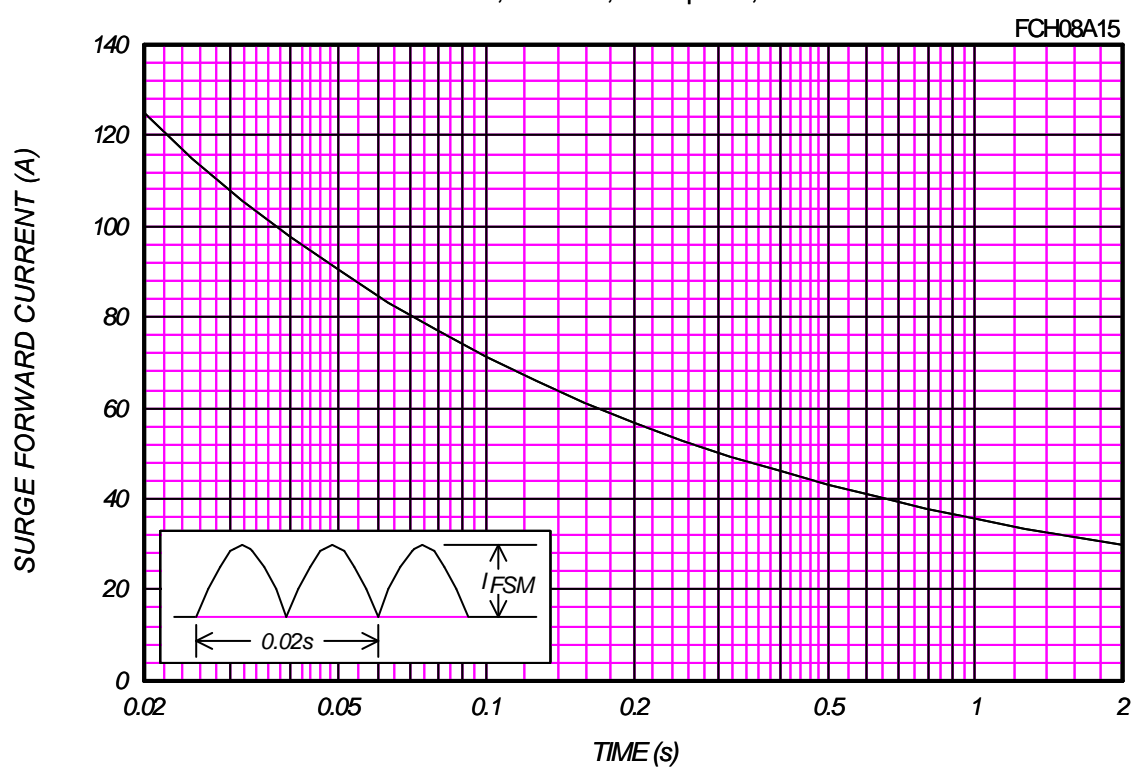
## AVERAGE FORWARD CURRENT VS. CASE TEMPERATURE

$V_{RM}=150V$



## SURGE CURRENT RATINGS

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



# JUNCTION CAPACITANCE VS. REVERSE VOLTAGE

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

FCH08A15 (per Arm)

