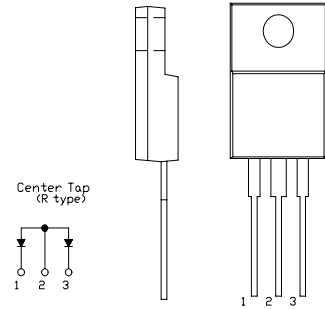


SBD Type : FRH08A15

OUTLINE DRAWING

FEATURES

- *Similar to TO-220AB Case
- *Fully Molded Isolation
- *Dual Diodes – Anode Common
- *High Voltage Low Leakage Current
- *Low Forward Voltage Drop
- *Low Power Loss,High Efficiency
- *High Surge Capability
- *Tj=150 °C operation



Maximum Ratings

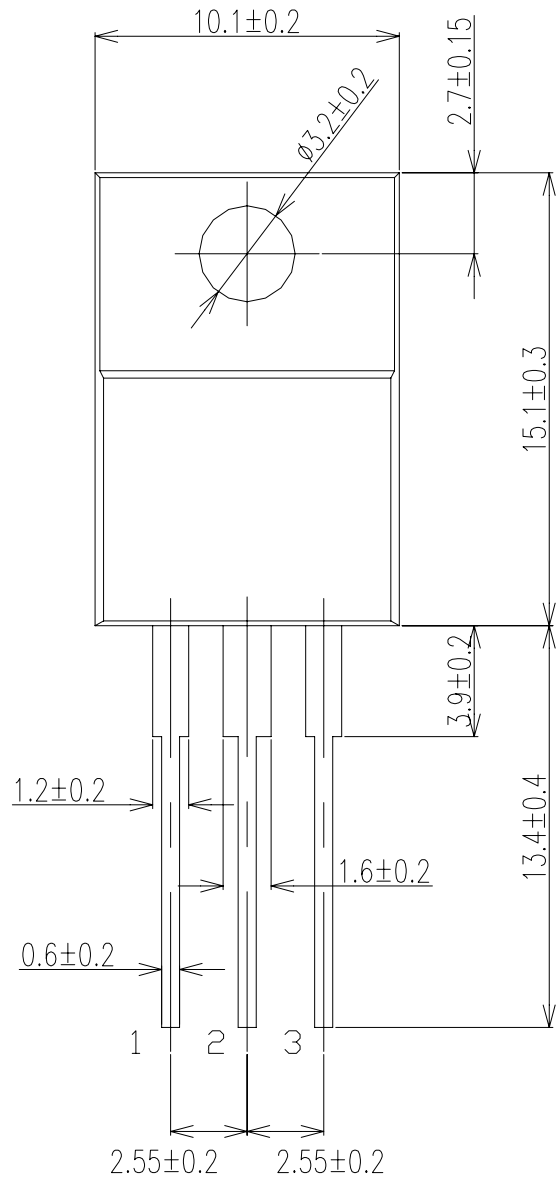
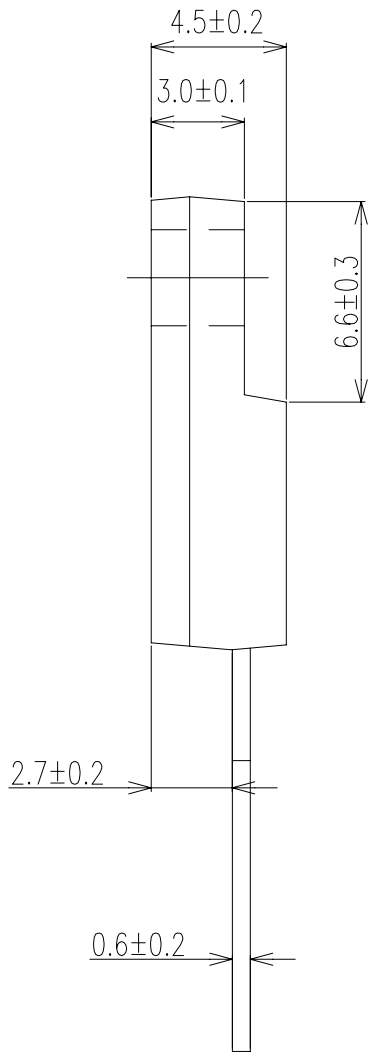
Approx Net Weight: 1.75g

Rating	Symbol	FRH08A15		Unit
Repetitive Peak Reverse Voltage	V_{RRM}	150		V
Average Rectified Output Current	I_O	8	$T_c=127^\circ\text{C}$ 50 Hz Full Sine Wave Resistive Load	A
RMS Forward Current	$I_{F(RMS)}$	8.8		A
Surge Forward Current	I_{FSM}	125	50Hz Full 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	Ftor	recommended torque = 0.5		N•m

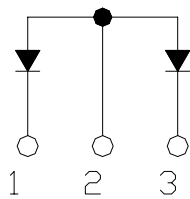
Electrical • Thermal Characteristics

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	Rth(j-c)	Junction to Case	-	-	3	$^\circ\text{C}/\text{W}$
	Rth(c-f)	Cace to Fin	-	-	1.5	$^\circ\text{C}/\text{W}$

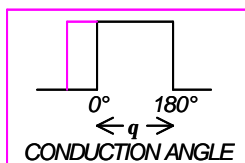
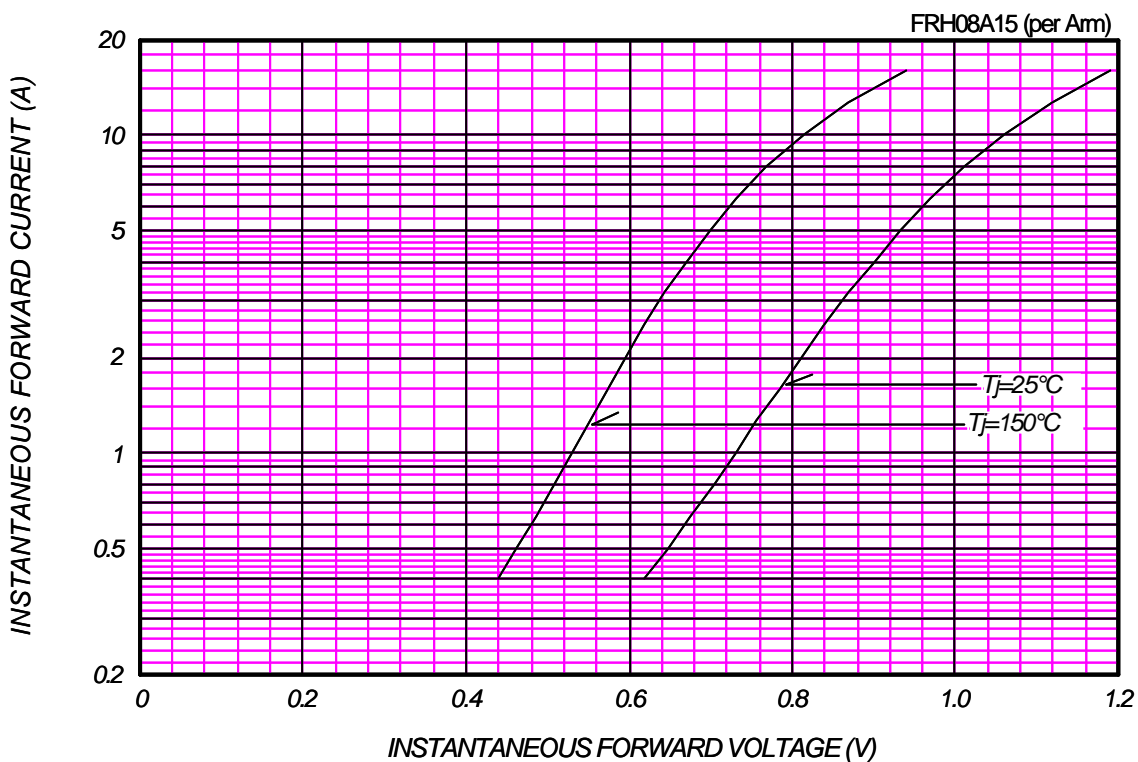
FRH_A_OUTLINE DRAWING (Dimensions in mm)



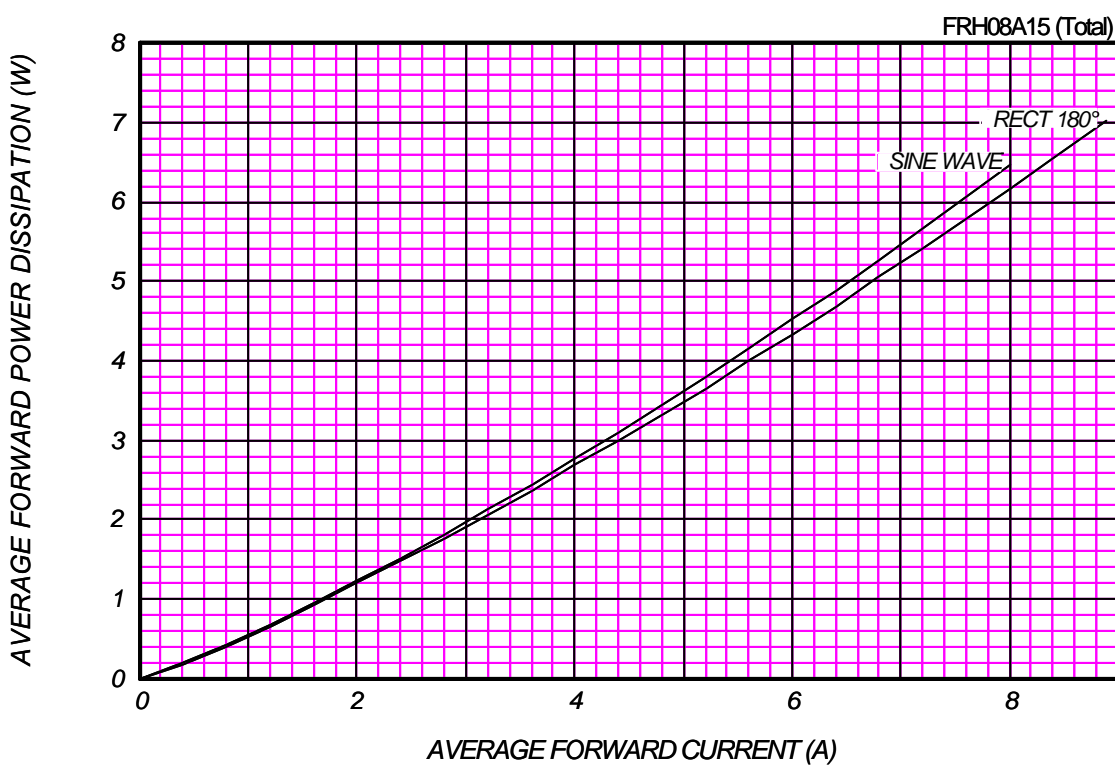
Center Tap
(R type)



FORWARD CURRENT VS. VOLTAGE



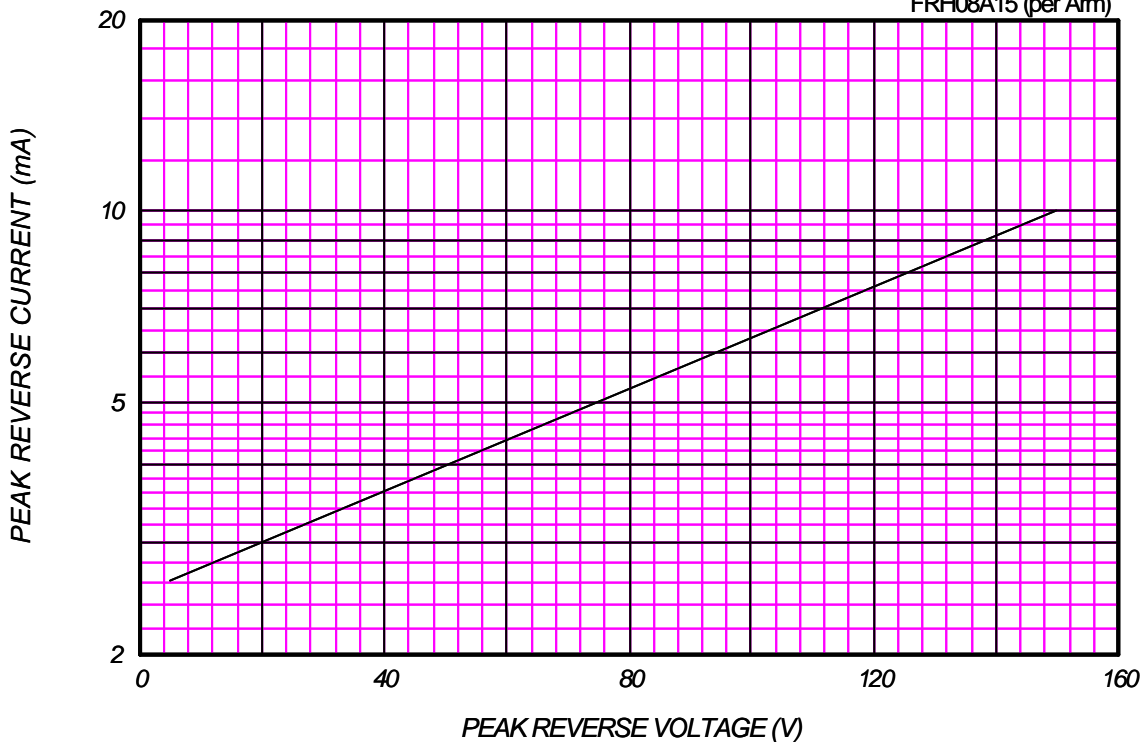
AVERAGE FORWARD POWER DISSIPATION



PEAK REVERSE CURRENT VS. PEAK REVERSE VOLTAGE

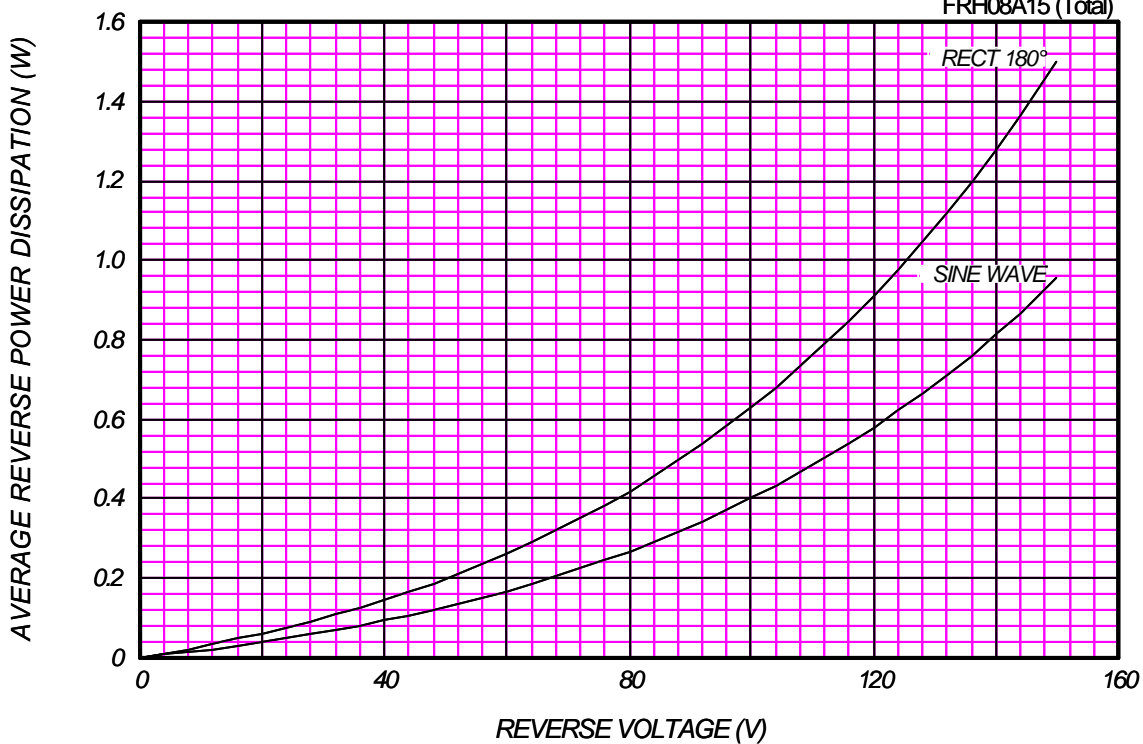
$T_J = 150^\circ\text{C}$

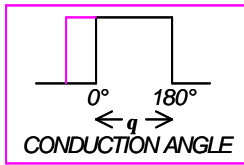
FRH08A15 (per Am)



AVERAGE REVERSE POWER DISSIPATION

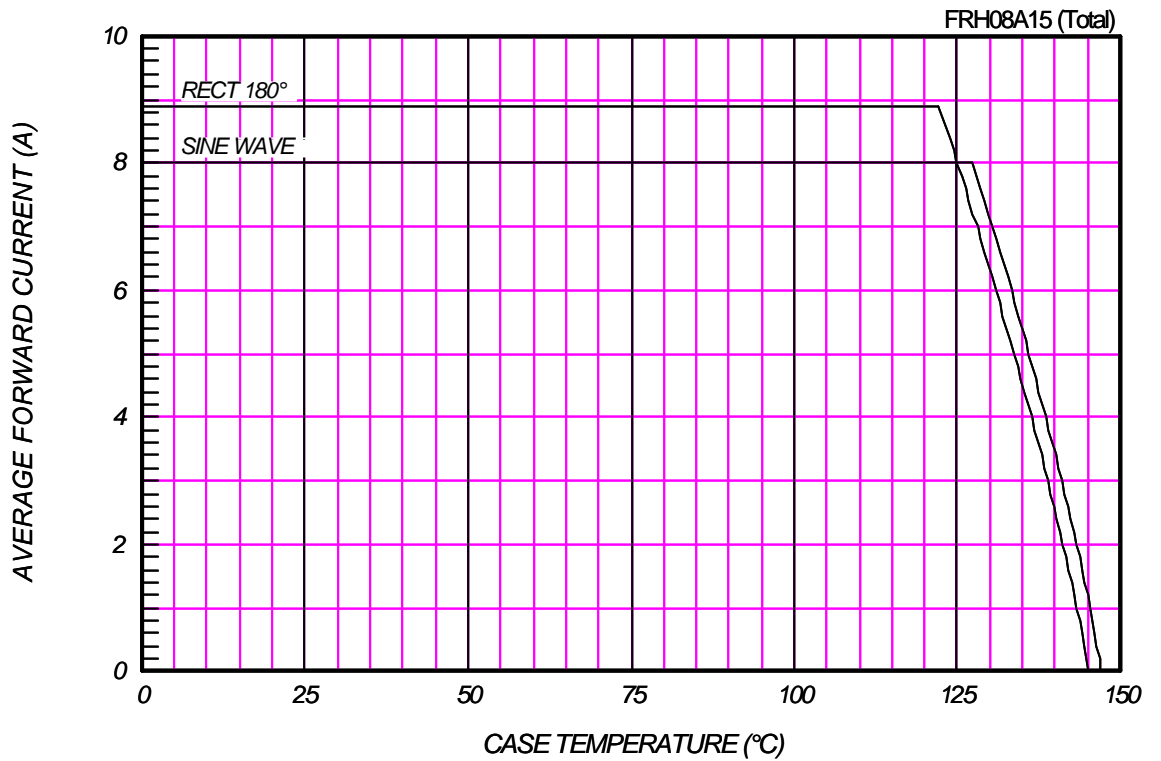
FRH08A15 (Total)





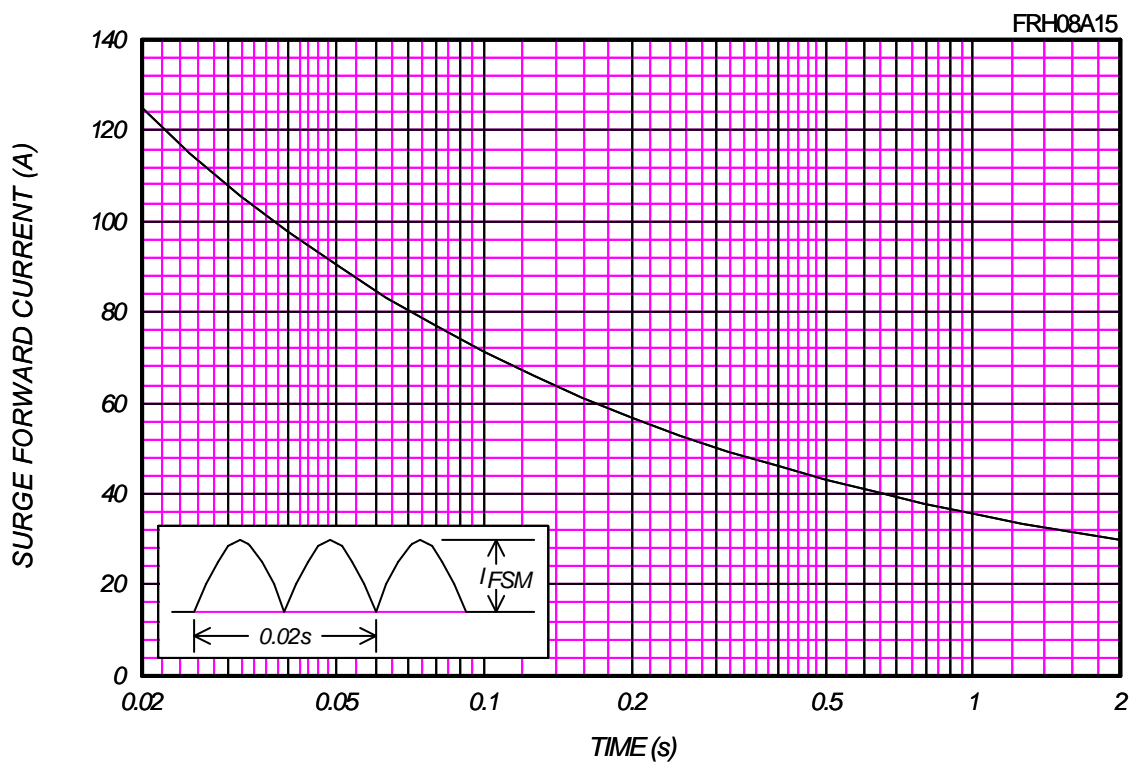
AVERAGE FORWARD CURRENT VS. CASE TEMPERATURE

$V_{RM}=150V$



SURGE CURRENT RATINGS

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



JUNCTION CAPACITANCE VS. REVERSE VOLTAGE

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

FRH08A15 (per Am)

