

20A 200V Anode Common

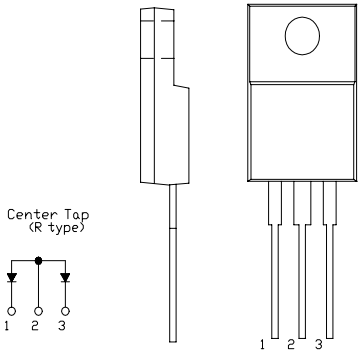
SBD Type : FRH20A20

OUTLINE DRAWING

For High Frequency Rectification

FEATURES

- * High VRM SBD
- * Low Forward Voltage Drop and Low Noise
- * Fully Molded Isolation
- * Dual Diodes Anode Common



Maximum Ratings

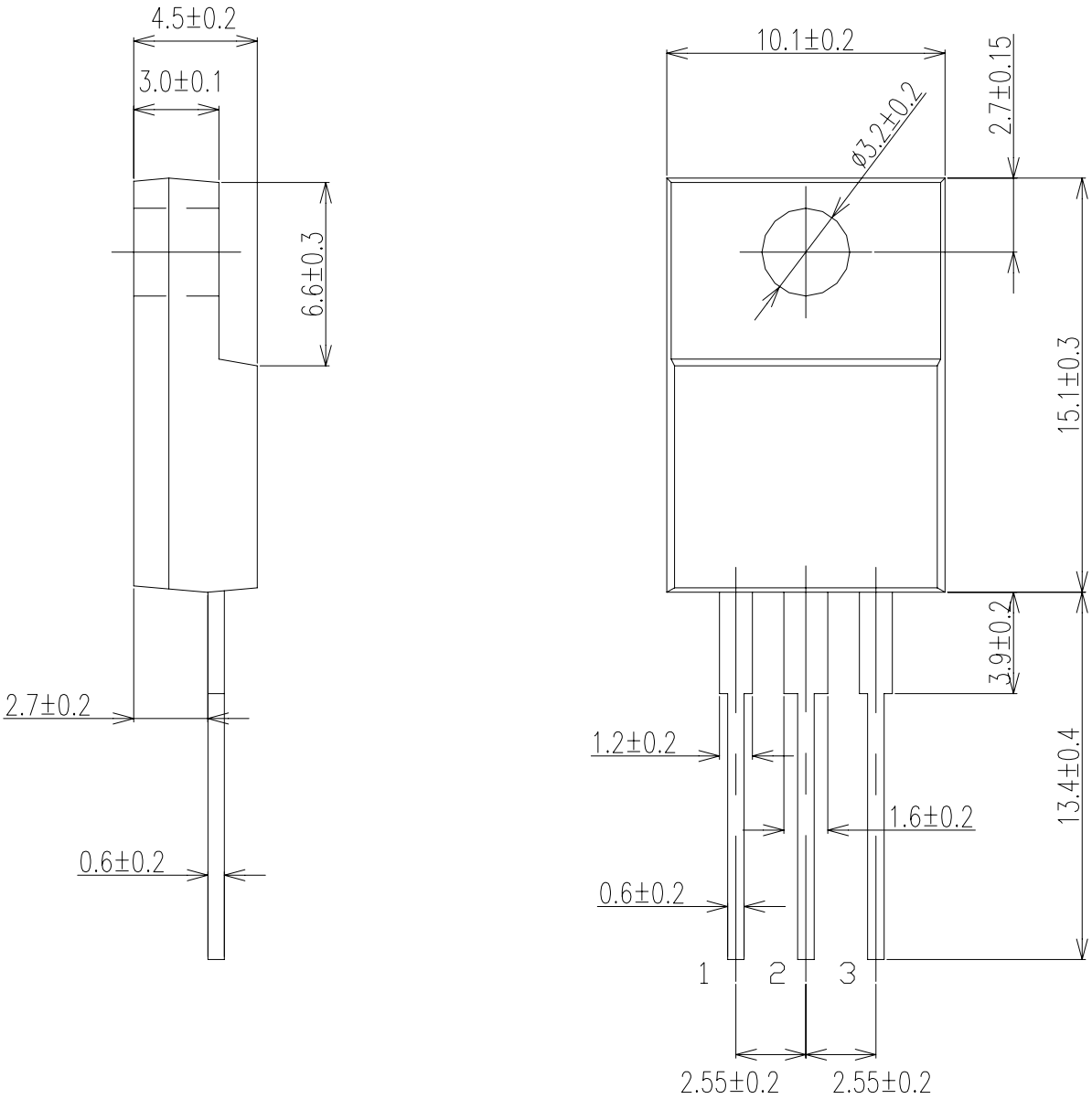
Approx Net Weight:1.75g

Rating	Symbol	FRH20A20			Unit
Repetitive Peak Reverse Voltage	V _{RRM}	200			V
Average Rectified Output Current	I _O	20	Tc=118℃	50 Hz,Full Sine Wave Resistive Load	A
RMS Forward Current	I _{F(RMS)}	22.2			A
Surge Forward Current	I _{FSM}	120	50 Hz Full Sine Wave,1cycle Non-repetitive		A
Operating JunctionTemperature Range	T _{jw}	- 40 to + 150			℃
Storage Temperature Range	T _{stg}	- 40 to + 150			℃
Mounting torque		0.5	Recommended value		N•m

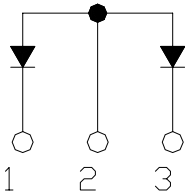
Electrical • Thermal Characteristics

Characteristics	Symbol	Conditions	Min.	Typ.	Max.	Unit
Peak Reverse Current	I_{RM}	$T_j=25^{\circ}C, V_{RM}=V_{RRM}$ per Diode	-	-	200	μA
Peak Forward Voltage	V_{FM}	$T_j=25^{\circ}C, I_{FM}=10A$ per Diode	-	-	0.90	V
Thermal Resistance	$R_{th(j-c)}$	Junction to Case	-	-	3	$^{\circ}C/W$
	$R_{th(c-f)}$	Case to Fin	-	-	1.5	

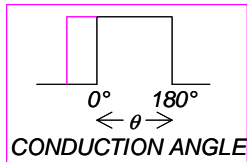
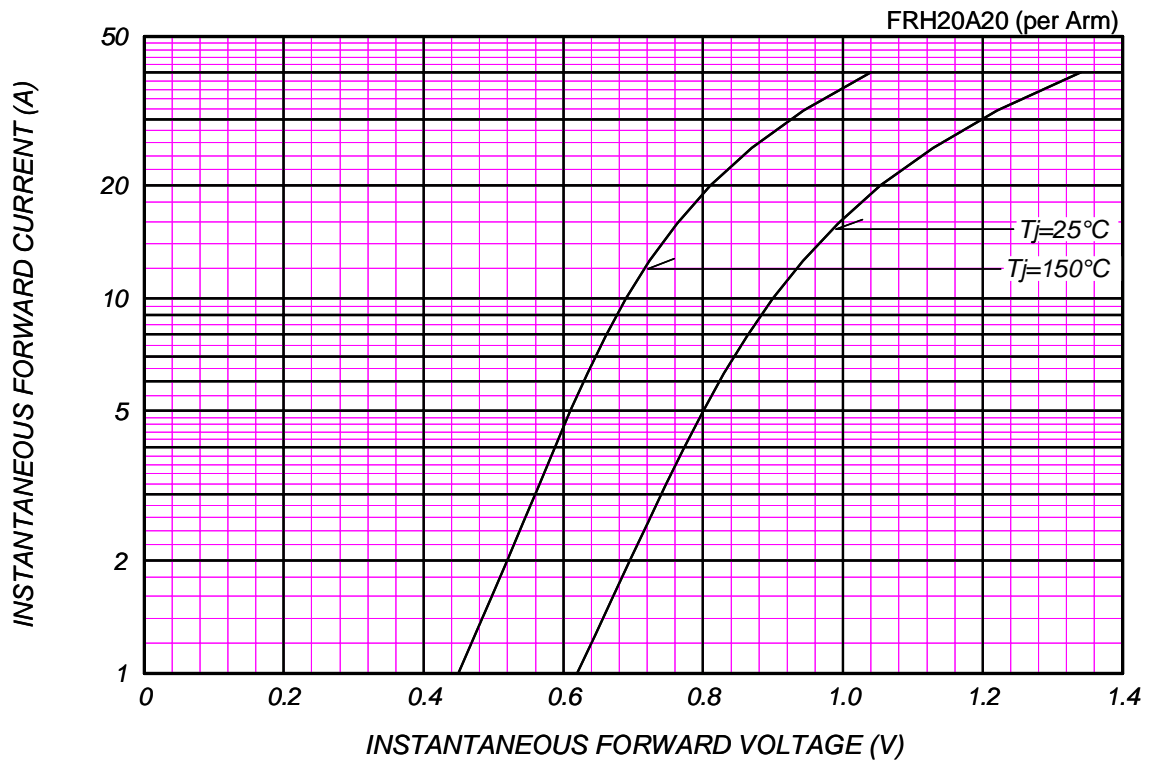
FRH_A_ OUTLINE DRAWING (Dimensions in mm)



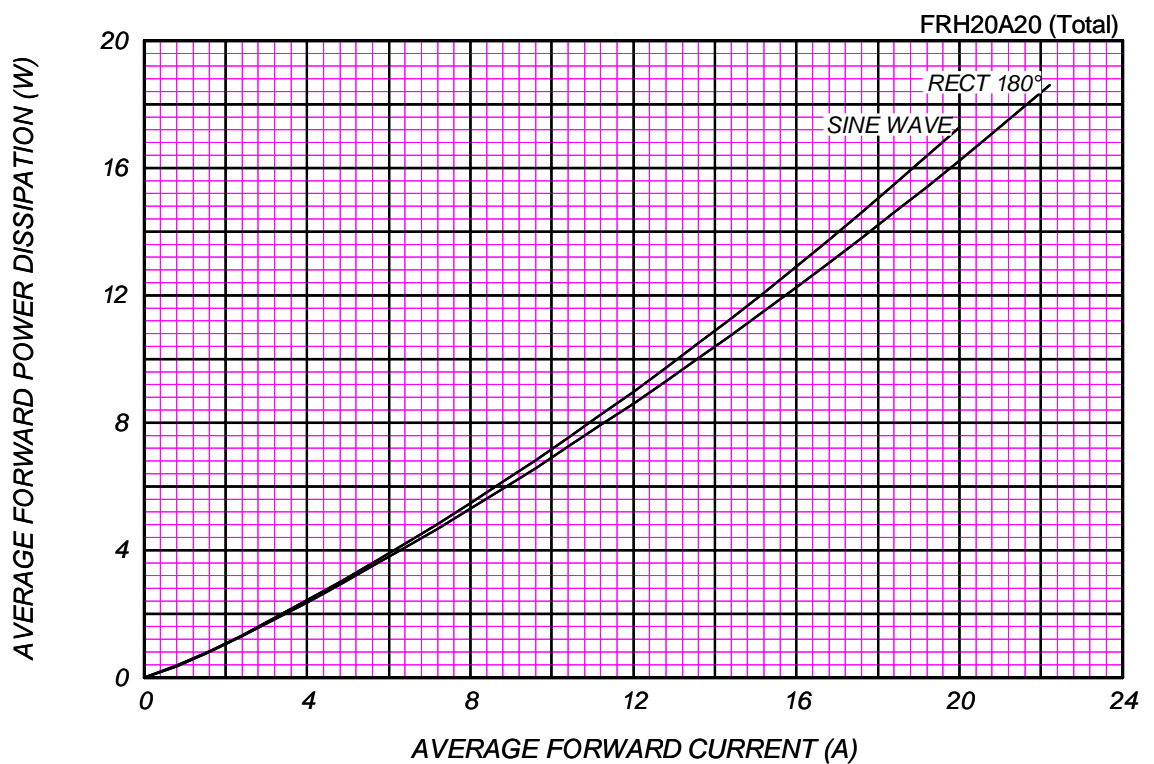
Center Tap
(R type)



FORWARD CURRENT VS. VOLTAGE



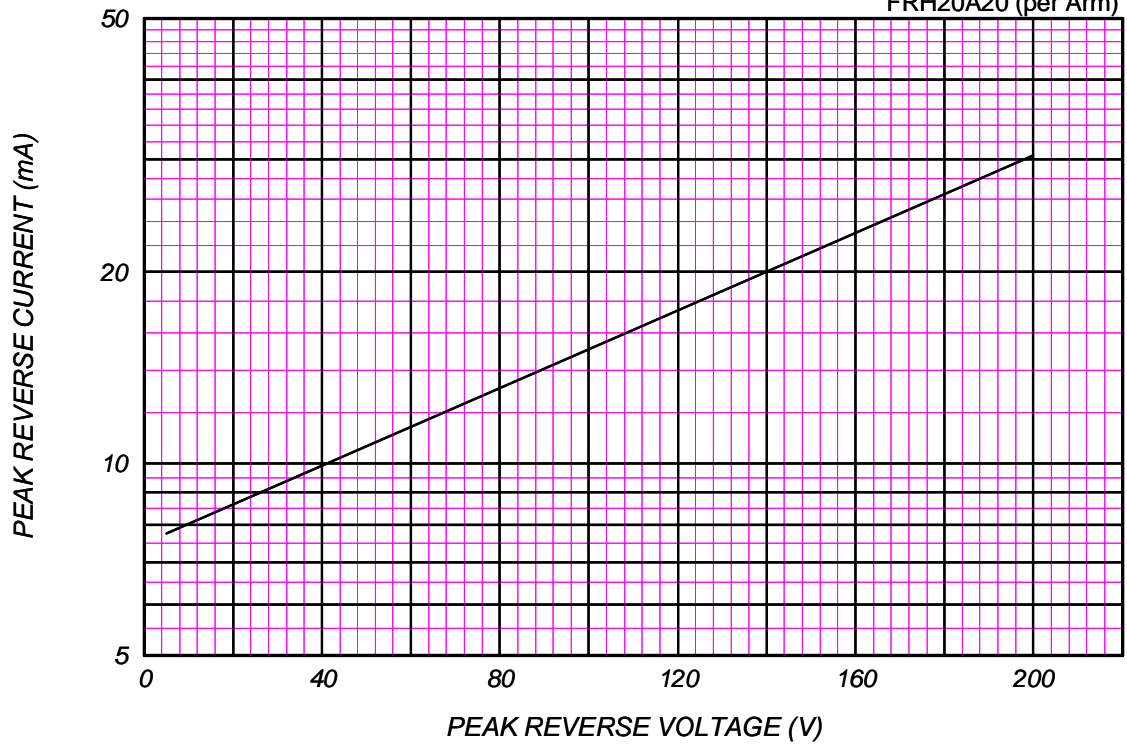
AVERAGE FORWARD POWER DISSIPATION



PEAK REVERSE CURRENT VS. PEAK REVERSE VOLTAGE

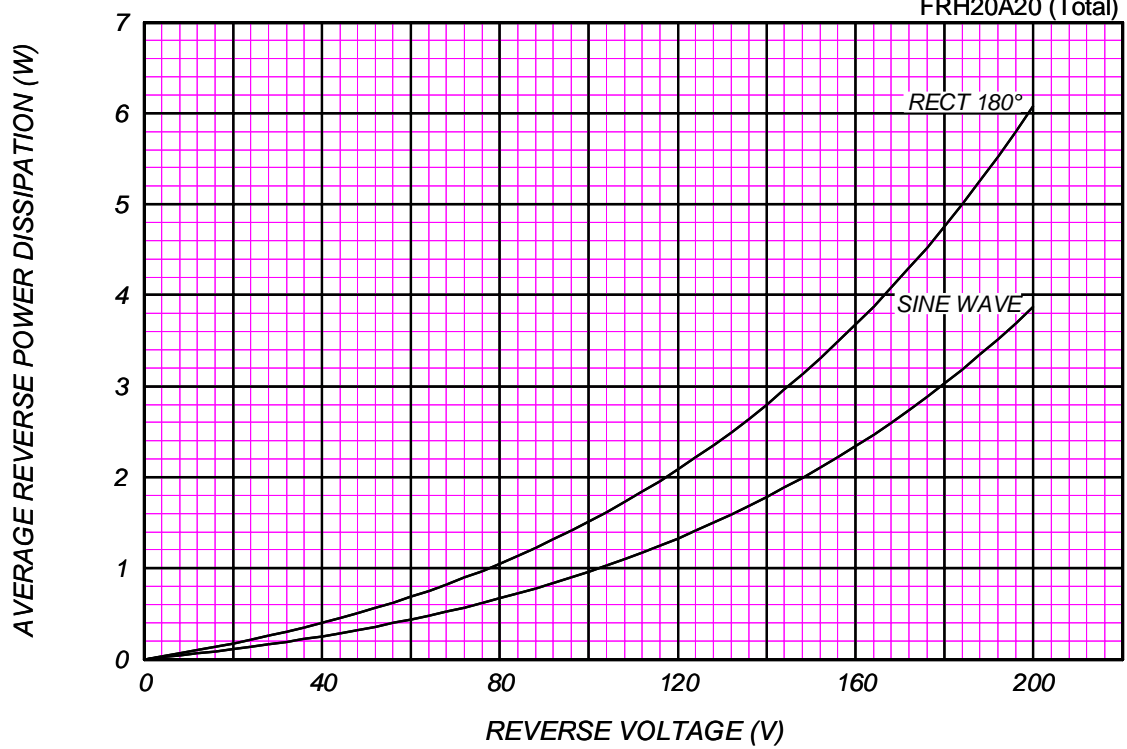
$T_j = 150^\circ\text{C}$

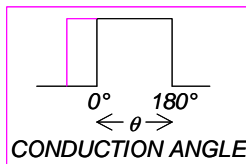
FRH20A20 (per Arm)



AVERAGE REVERSE POWER DISSIPATION

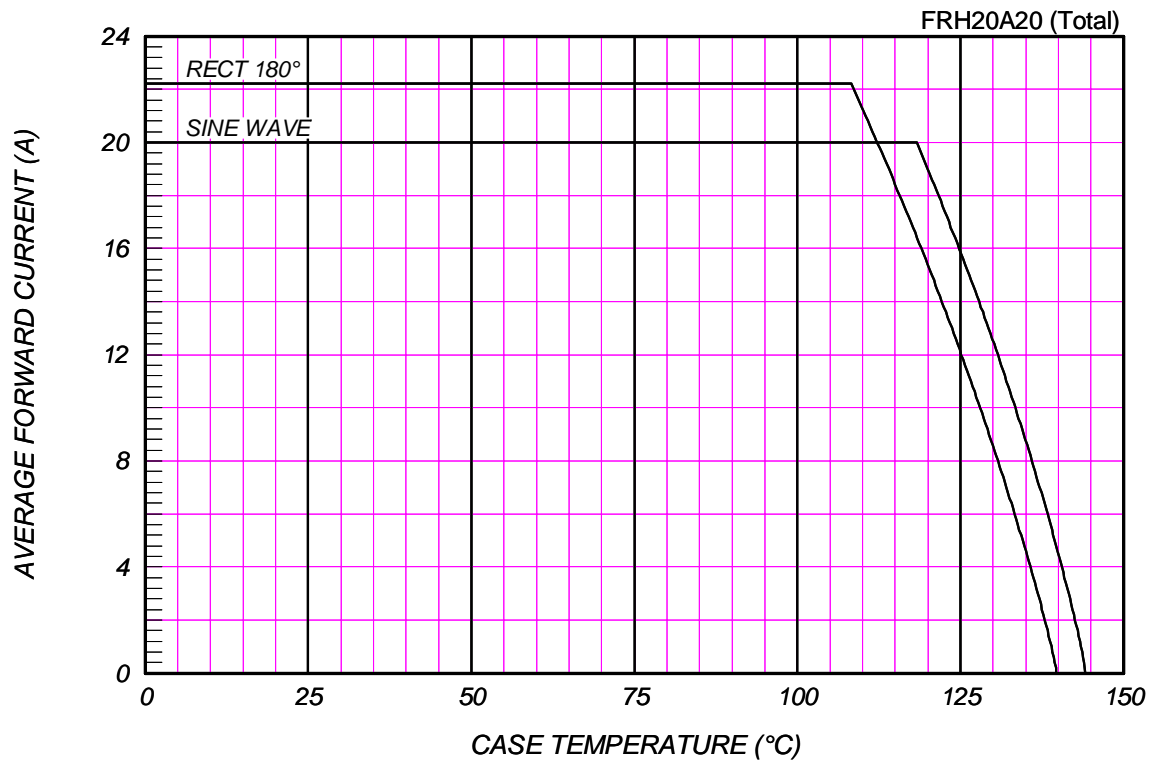
FRH20A20 (Total)





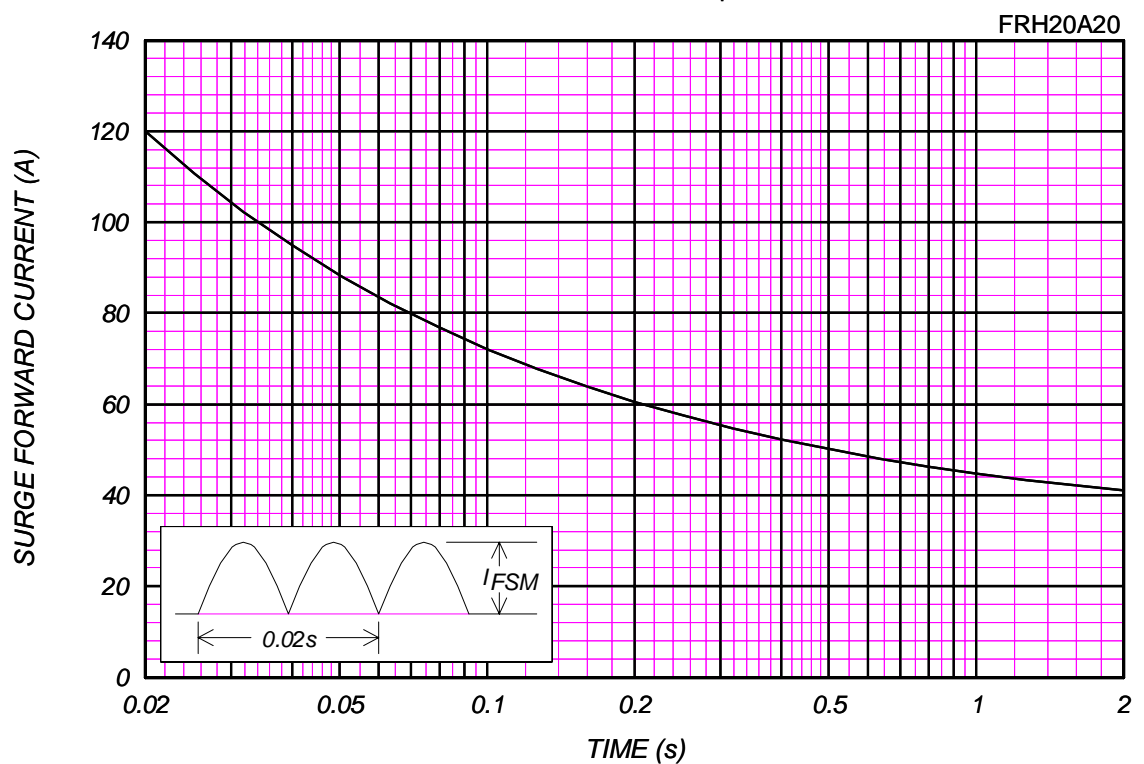
AVERAGE FORWARD CURRENT VS. CASE TEMPERATURE

$V_{RM}=200V$



SURGE CURRENT RATINGS

$f=50Hz$, Half 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

FRH20A20 (per Arm)

