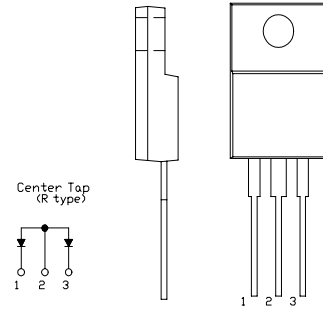


SBD Type : FRH10A10

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

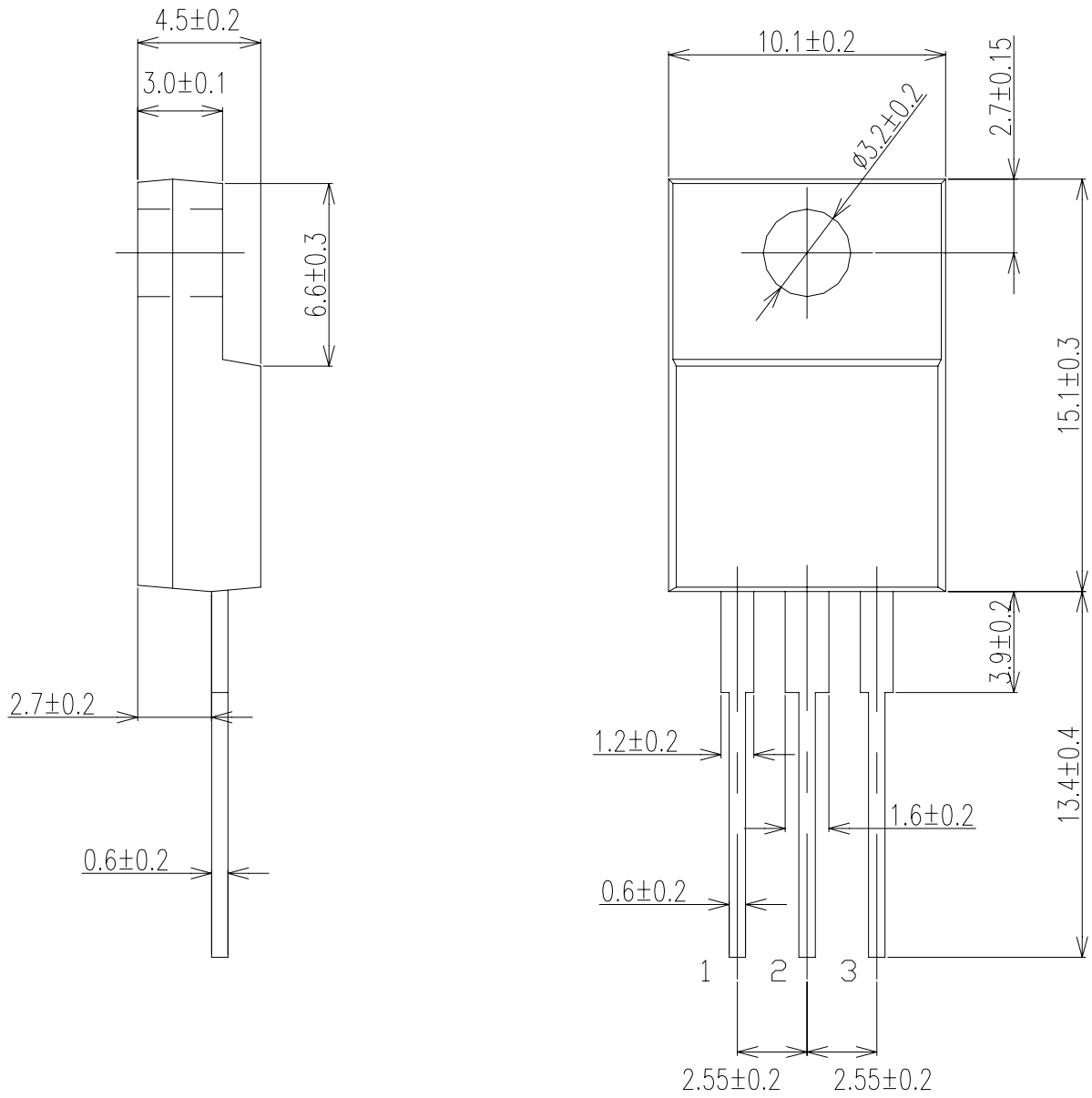
Approx Net Weight: 1.75g

Rating	Symbol	FRH10A10			Unit
Repetitive Peak Reverse Voltage	V_{RRM}	100			V
Average Rectified Output Current	I_O	10	$T_c=122^{\circ}C$	50 Hz Full Sine Wave Resistive Load	A
RMS Forward Current	$I_{F(RMS)}$	11.1			A
Surge Forward Current	I_{FSM}	120	50Hz Full Sine Wave ,1cycle Non-repetitive		A
Operating JunctionTemperature Range	T_{jw}	-40 to +150			$^{\circ}C$
Storage Temperature Range	T_{stg}	-40 to +150			$^{\circ}C$
Mounting torque	Ftor	recommended torque = 0.5			N•m

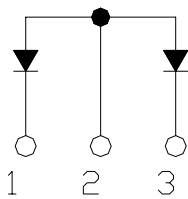
Electrical • Thermal Characteristics

Characteristics	Symbol	Conditions	Min.	Typ.	Max.	Unit
Peak Reverse Current	I_{RM}	$T_j= 25^{\circ}C, V_{RM}= V_{RRM}$ per Arm	-	-	1	mA
Peak Forward Voltage	V_{FM}	$T_j= 25^{\circ}C, I_{FM}= 5 A$ per Arm	-	-	0.85	V
Thermal Resistance	Rth(j-c)	Junction to Case	-	-	3	$^{\circ}C/W$
	Rth(c-f)	Cace to Fin	-	-	1.5	$^{\circ}C/W$

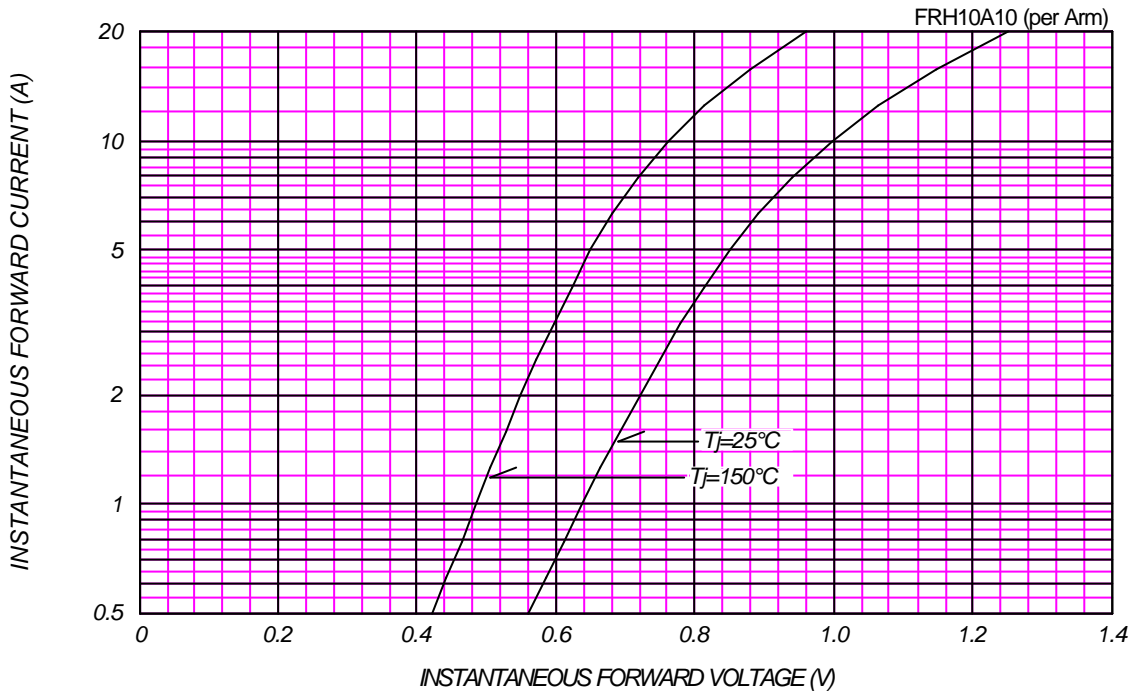
FRH_A_OUTLINE DRAWING (Dimensions in mm)



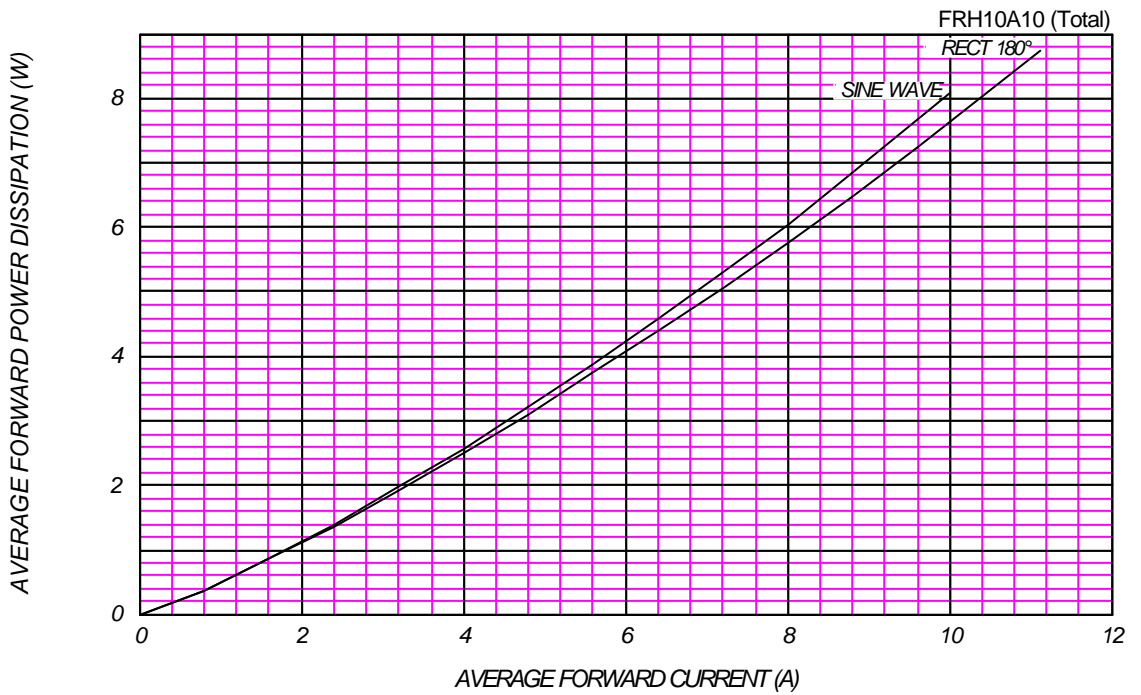
Center Tap
(R type)



FORWARD CURRENT VS. VOLTAGE

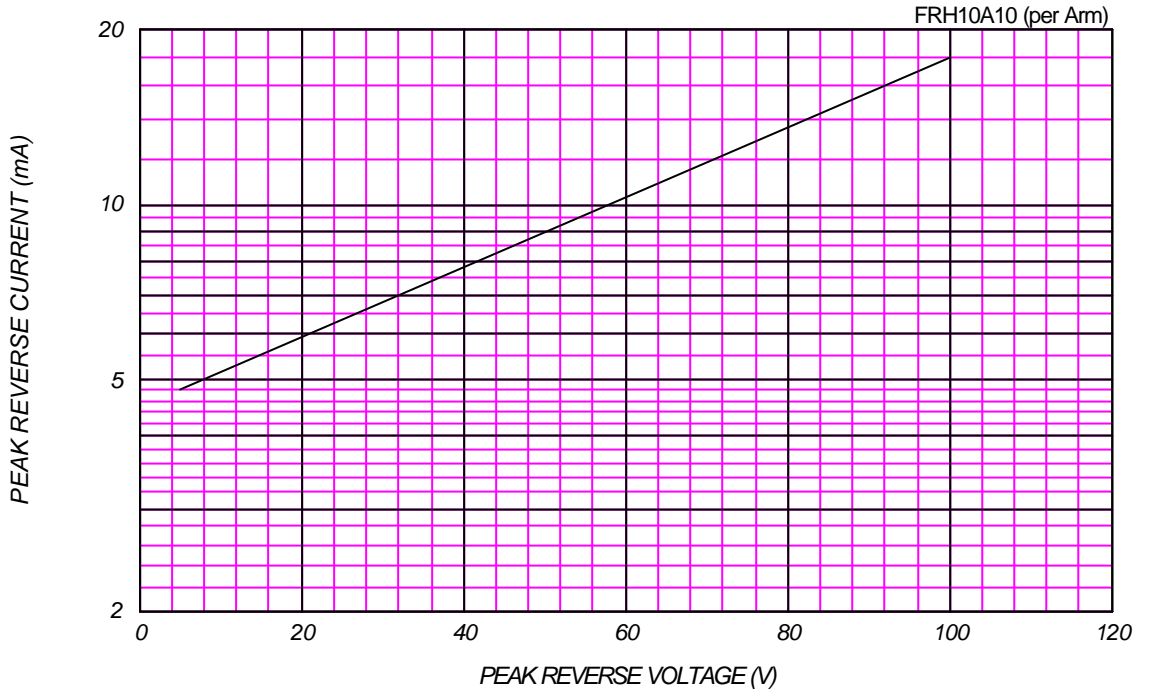


AVERAGE FORWARD POWER DISSIPATION

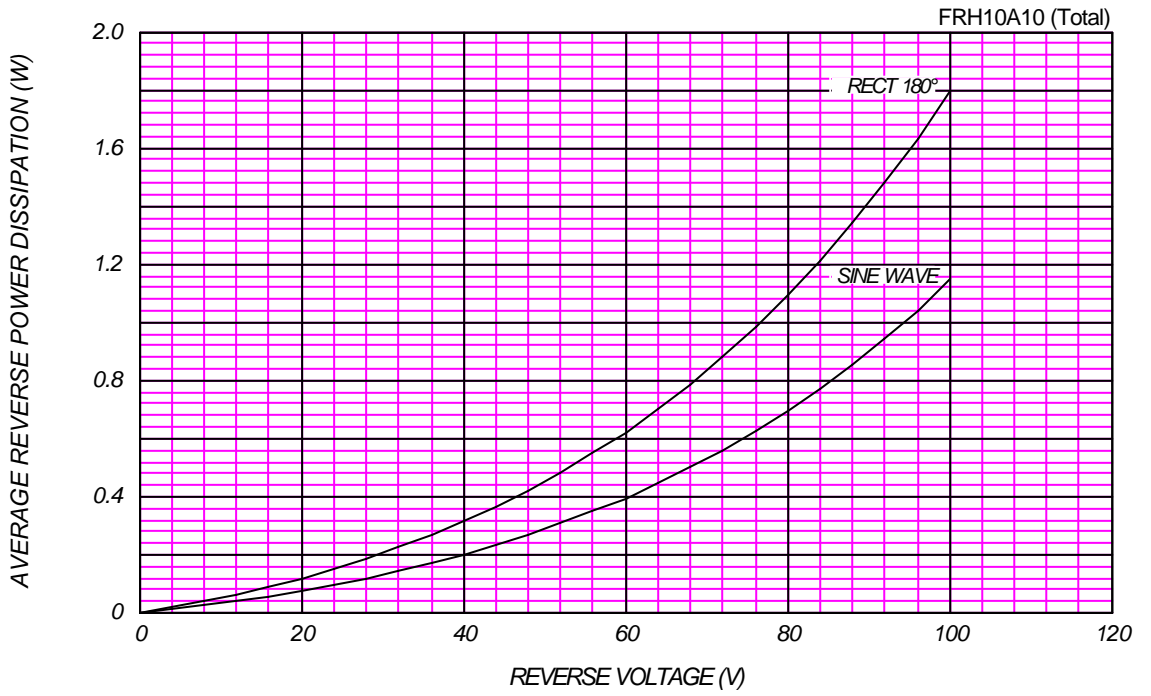


PEAK REVERSE CURRENT VS. PEAK REVERSE VOLTAGE

T_j = 150 °C



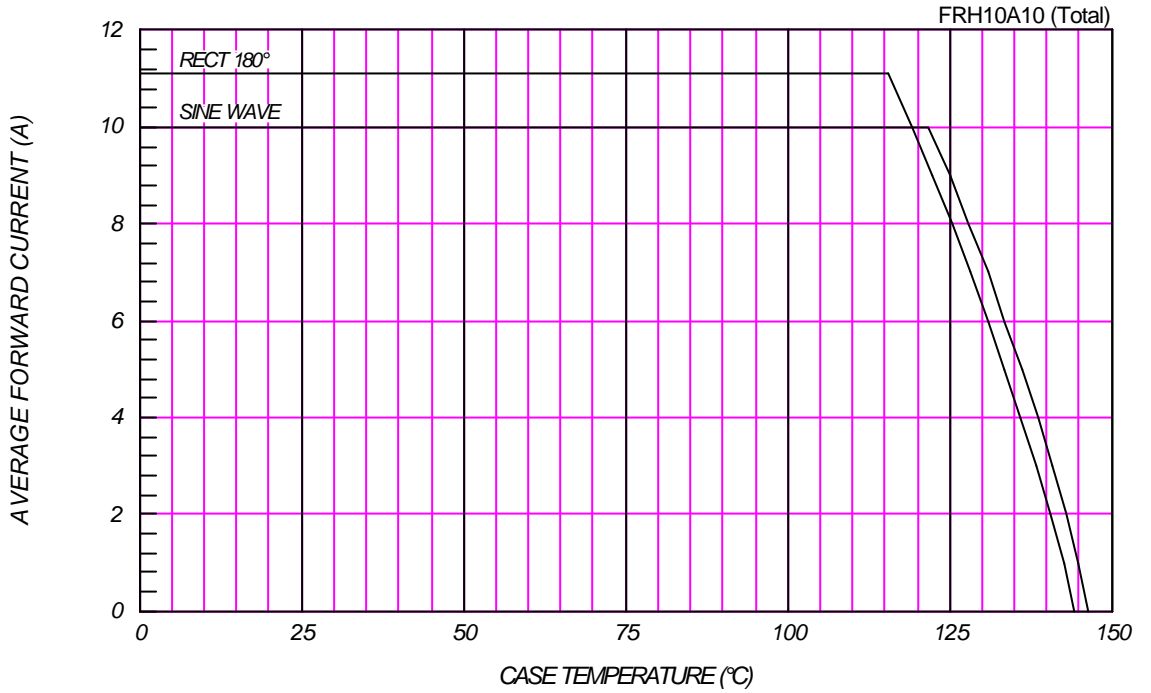
AVERAGE REVERSE POWER DISSIPATION





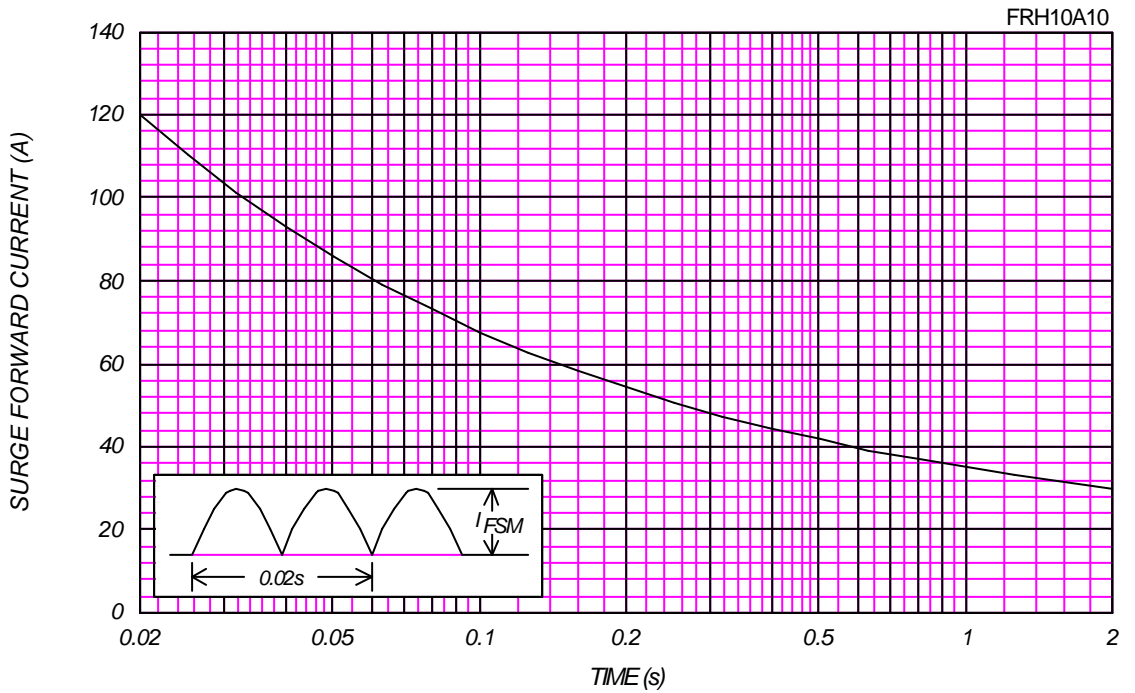
AVERAGE FORWARD CURRENT VS. CASE TEMPERATURE

$V_{RM} = 100V$



SURGE CURRENT RATINGS

$f = 50\text{Hz}$, 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

