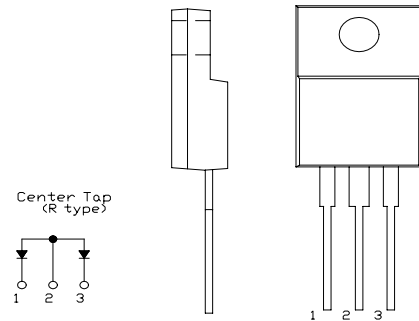


FRD Type : FRF10A40

OUTLINE DRAWING

FEATURES

- * Fully Molded Isolation
- * Dual Diodes – Anode Common
- * Ultra – Fast Recovery
- * Low Forward Voltage Drop
- * High Surge Capability
- * 200 Volts thru 600 Volts Types Available



Maximum Ratings

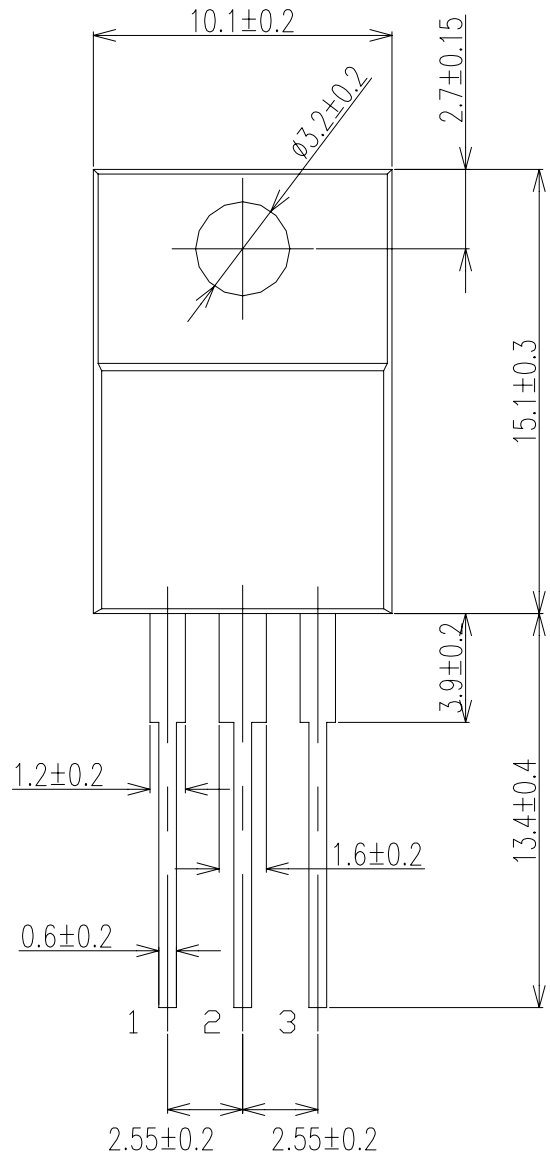
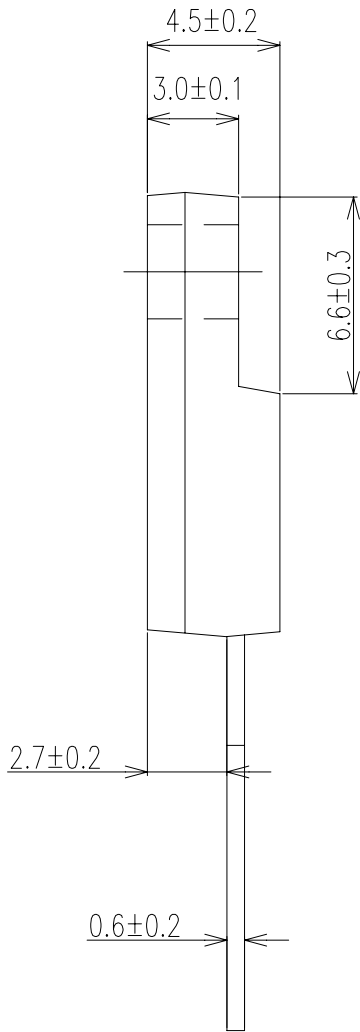
Approx Net Weight:1.75g

Rating	Symbol	FRF10A40		Unit
Repetitive Peak Reverse Voltage	V_{RRM}	400		V
Non-repetitive Peak Reverse Voltage	V_{RSM}	440		V
Average Rectified Output Current	I_O	10	$T_c=112^\circ\text{C}$ 50 Hz, Full Sine Wave Resistive Load	A
RMS Forward Current	$I_{F(RMS)}$	11.1		A
Surge Forward Current	I_{FSM}	80	50 Hz Full Sine Wave, 1 cycle Non-repetitive	A
Operating Junction Temperature Range	T_{jw}	- 40 to + 150		$^\circ\text{C}$
Storage Temperature Range	T_{stg}	- 40 to + 150		$^\circ\text{C}$
Mounting torque		0.5	Recommended value	N·m

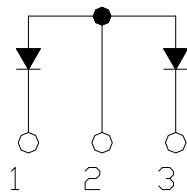
Electrical • Thermal Characteristics

Characteristics	Symbol	Conditions	Min.	Typ.	Max.	Unit
Peak Reverse Current	I_{RM}	$T_j=25^\circ\text{C}$, $V_{RM}=V_{RRM}$ per Arm	-	-	30	μA
Peak Forward Voltage	V_{FM}	$T_j=25^\circ\text{C}$, $I_{FM}=5\text{A}$ per Arm	-	-	1.25	V
Reverse Recovery Time	t_{rr}	$I_{FM}= 5 \text{ A}$, $-di/dt= 50 \text{ A}/\mu\text{s}$, $T_a= 25^\circ\text{C}$	-	-	45	ns
Thermal Resistance	$R_{th(j-c)}$	Junction to Case	-	-	3	$^\circ\text{C}/\text{W}$
	$R_{th(c-f)}$	Case to Fin			1.5	

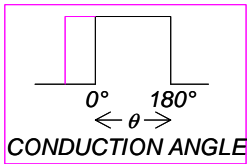
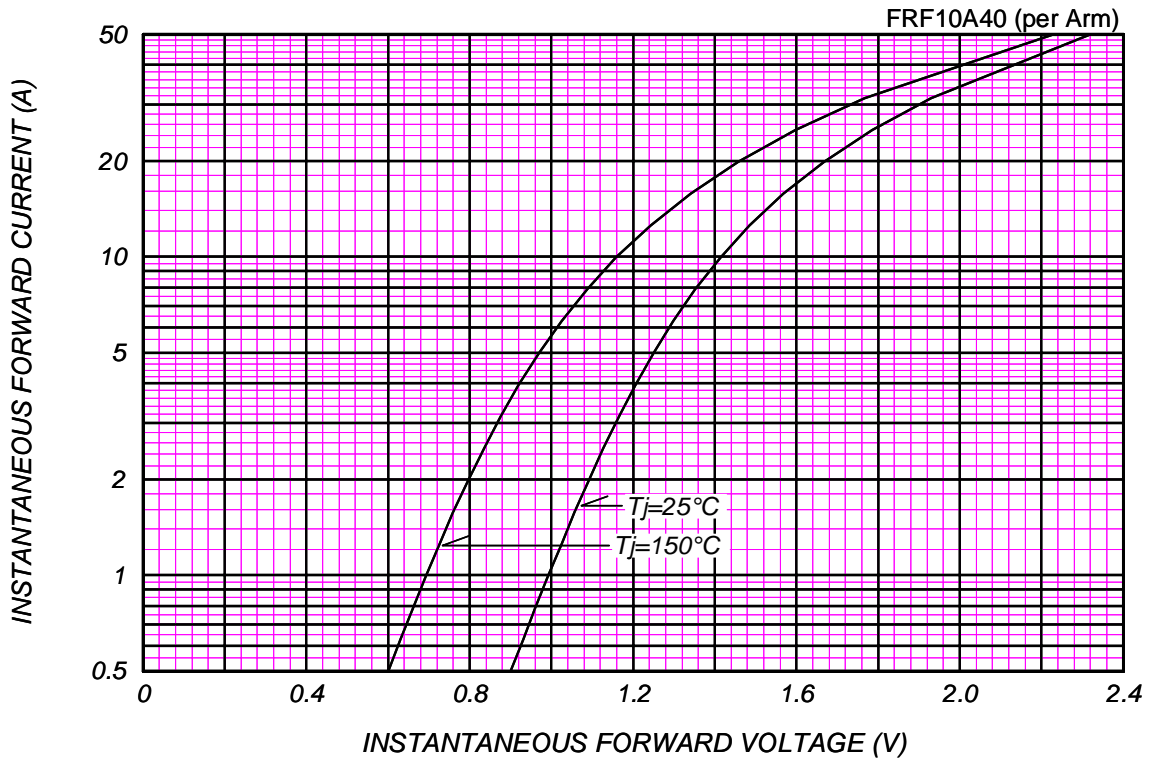
FRF_A_ OUTLINE DRAWING (Dimensions in mm)



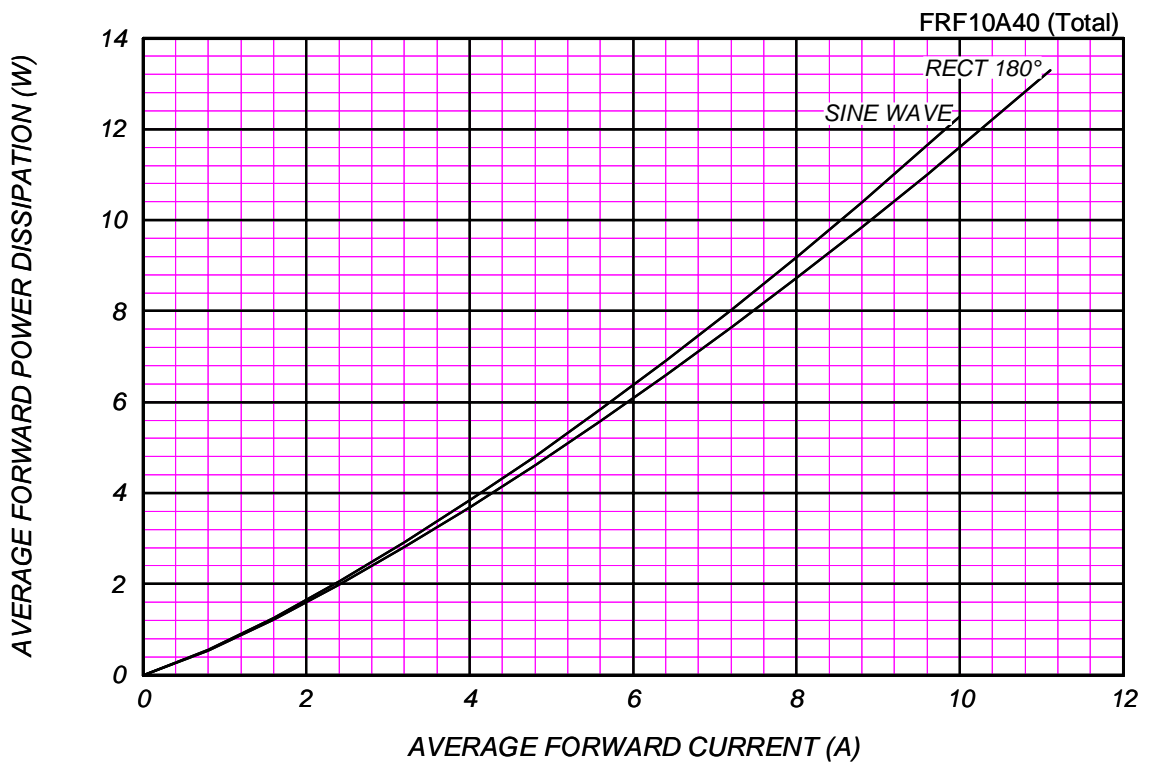
Center Tap
(R type)

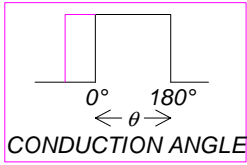


FORWARD CURRENT VS. VOLTAGE

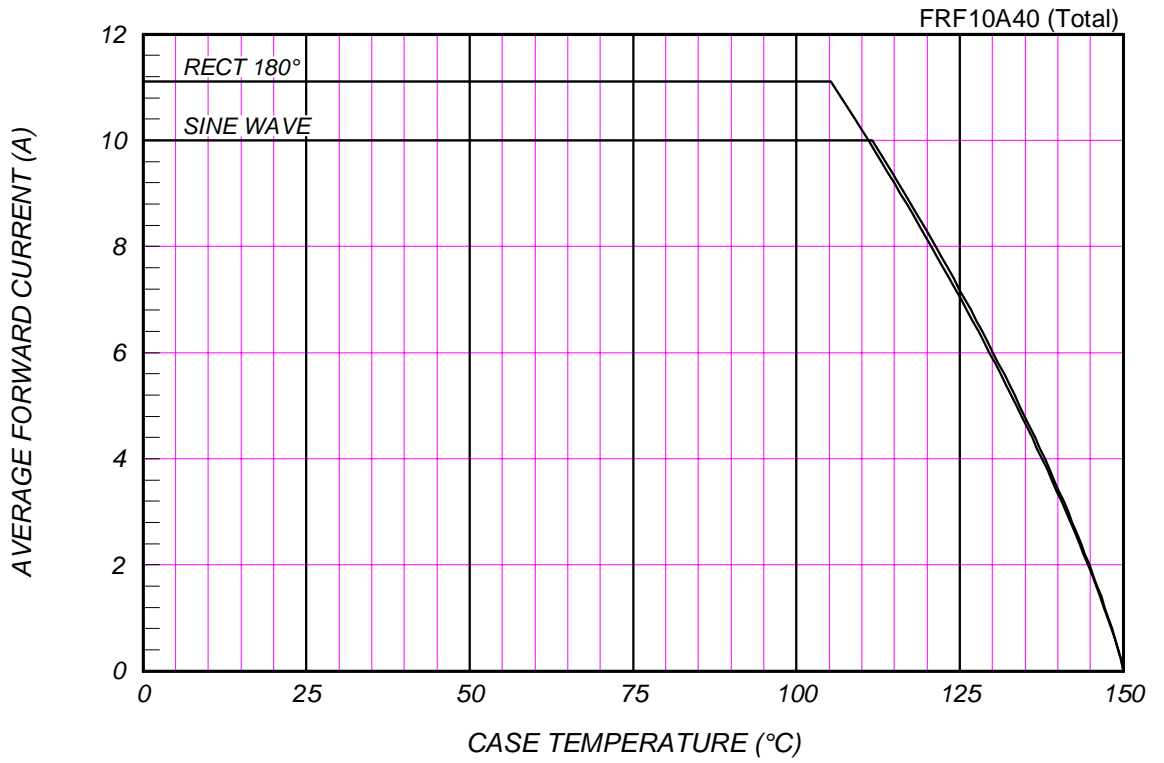


AVERAGE FORWARD POWER DISSIPATION





AVERAGE FORWARD CURRENT VS. CASE TEMPERATURE



SURGE CURRENT RATINGS

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

