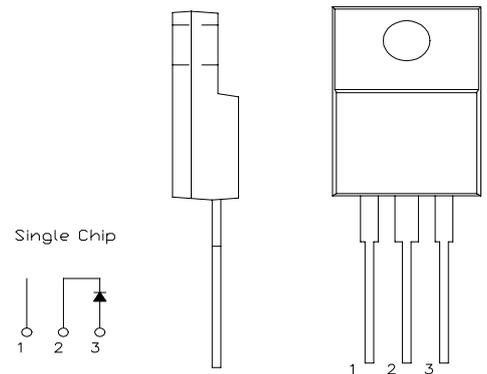


FRD Type : FSF10A40B

OUTLINE DRAWING

FEATURES

- * Fully Molded Isolation Case
- * Ultra – Fast Recovery
- * Low Forward Voltage Drop
- * Low Power Loss, High Efficiency
- * High Surge Capability
- * 200 Volts thru 600 Volts Types Available



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Maximum Ratings

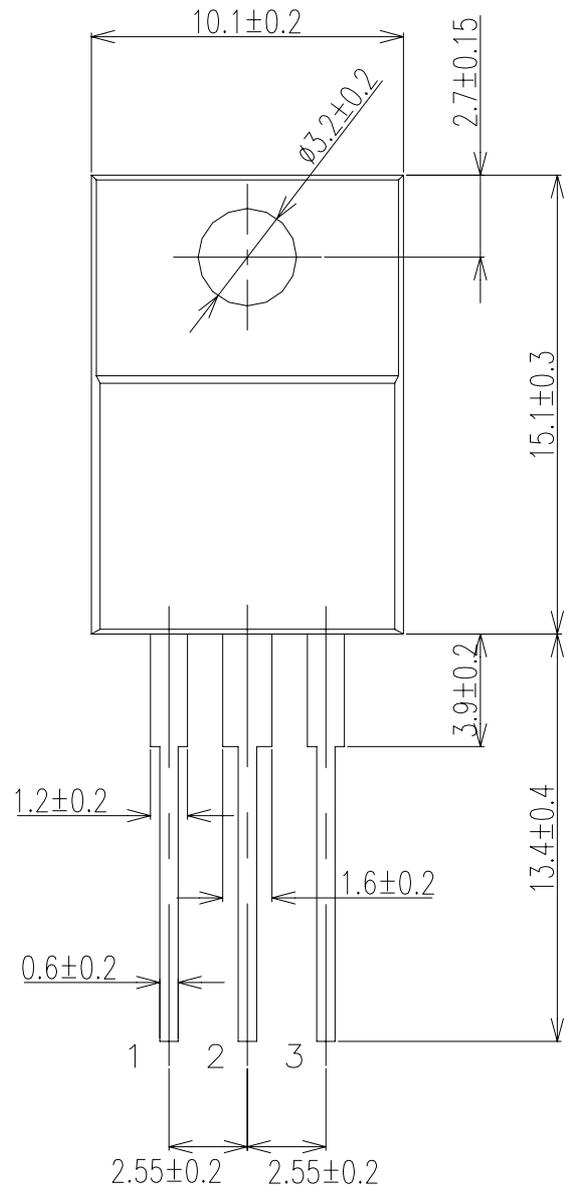
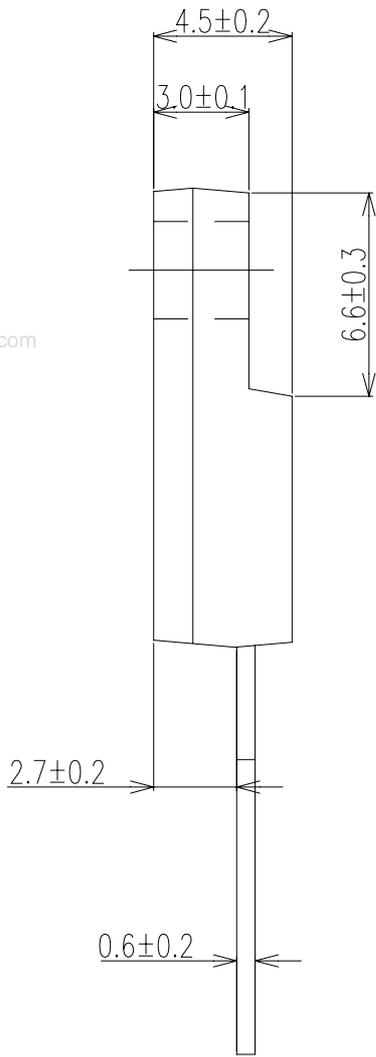
Approx Net Weight:1.75g

Rating	Symbol	FSF10A40B		Unit
Repetitive Peak Reverse Voltage	V_{RRM}	400		V
Non-repetitive Peak Reverse Voltage	V_{RSM}	440		
Average Rectified Output Current	I_O	10	$T_c=95^\circ\text{C}$ 50 Hz Half Sine Wave Resistive Load	A
RMS Forward Current	$I_{F(RMS)}$	15.7		A
Surge Forward Current	I_{FSM}	120	50 Hz Half 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

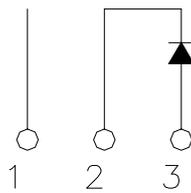
Electrical • Thermal Characteristics

Characteristics	Symbol	Conditions	Min.	Typ.	Max.	Unit
Peak Reverse Current	I_{RM}	$T_j = 25^\circ\text{C}$, $V_{RM} = V_{RRM}$	-	-	25	μA
Peak Forward Voltage	V_{FM}	$T_j = 25^\circ\text{C}$, $I_{FM} = 10\text{A}$	-	-	1.30	V
Reverse Recovery Time	t_{rr}	$I_{FM} = 10\text{A}$, $-di/dt = 50\text{ A}/\mu\text{s}$, $T_a = 25^\circ\text{C}$	-	-	45	ns
Thermal Resistance	$R_{th(j-c)}$	Junction to Case	-	-	4	$^\circ\text{C}/\text{W}$
	$R_{th(c-f)}$	Case to Fin	-	-	1.5	

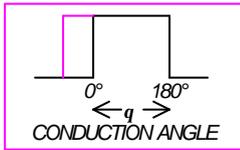
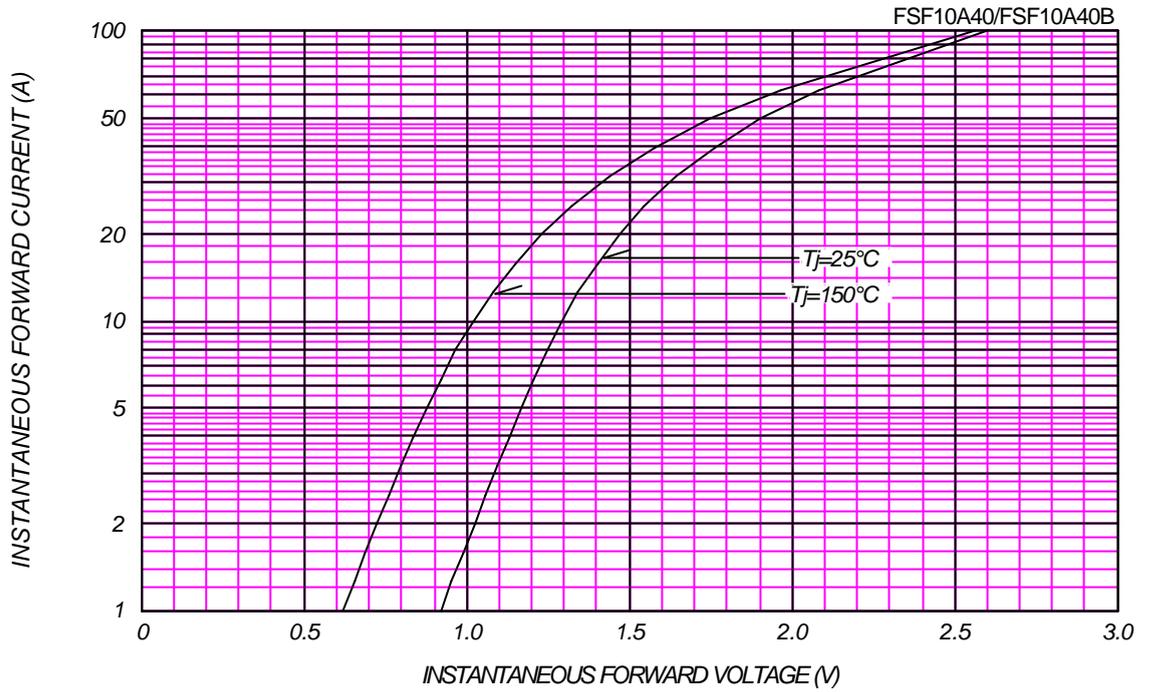
FSF_A_B OUTLINE DRAWING (Dimensions in mm)



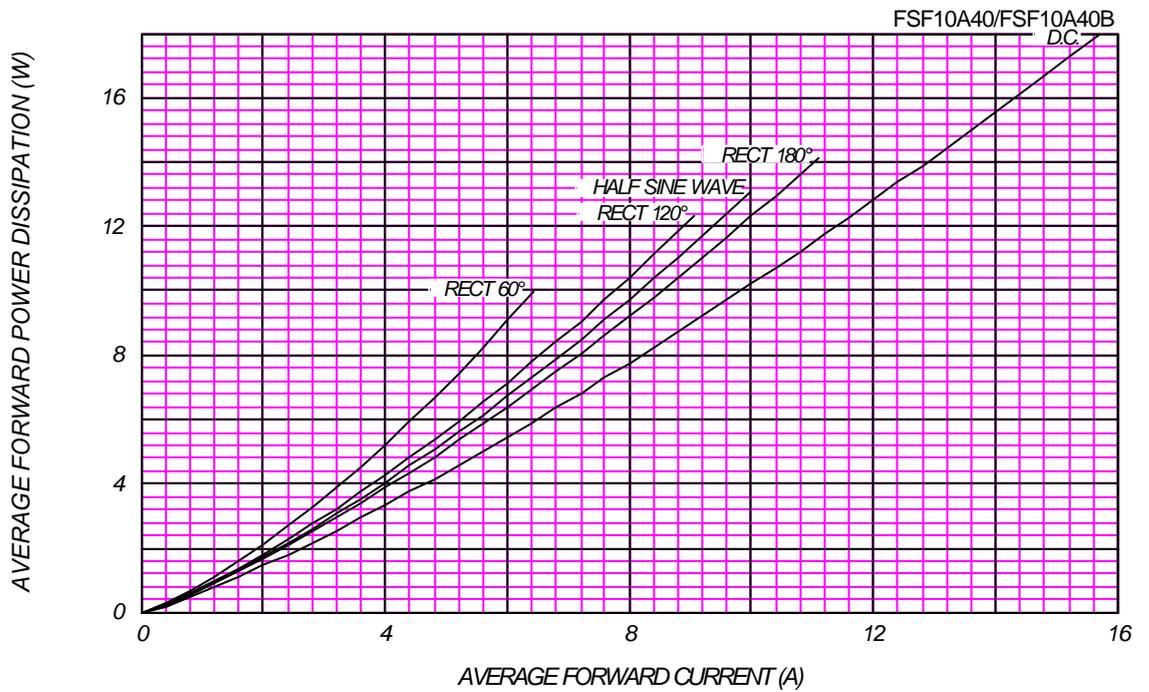
Single Chip

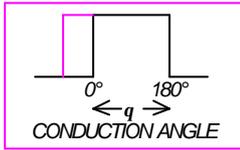


FORWARD CURRENT VS. VOLTAGE

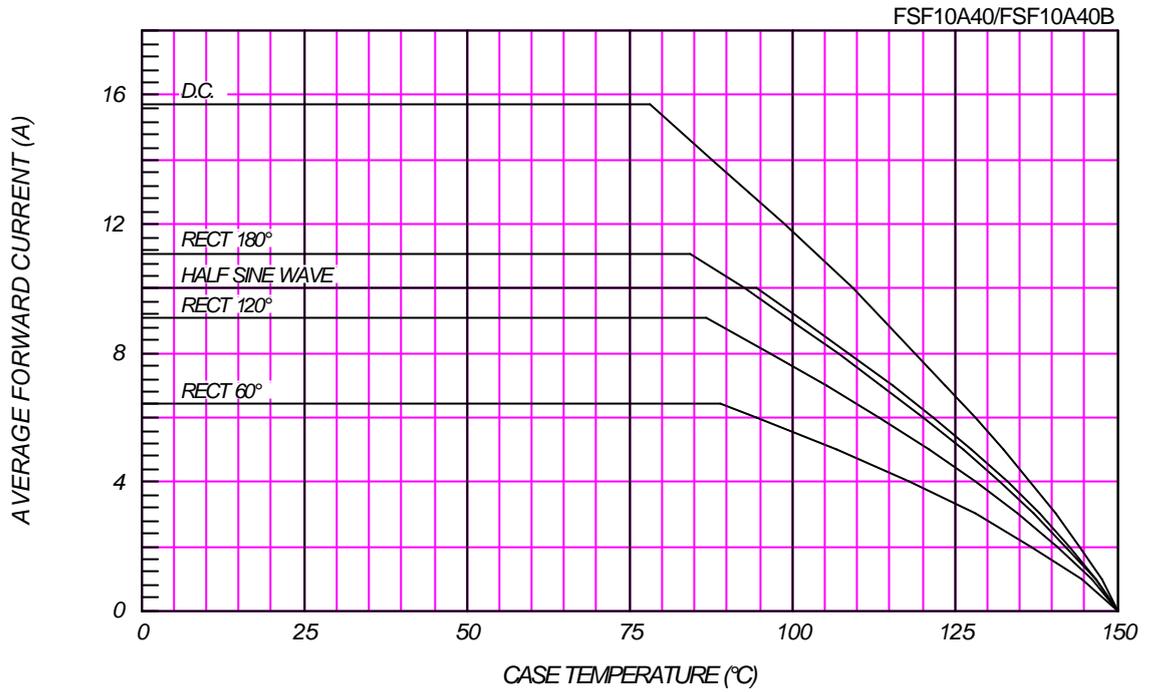


AVERAGE FORWARD POWER DISSIPATION





AVERAGE FORWARD CURRENT VS. CASE TEMPERATURE



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SURGE CURRENT RATINGS

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

