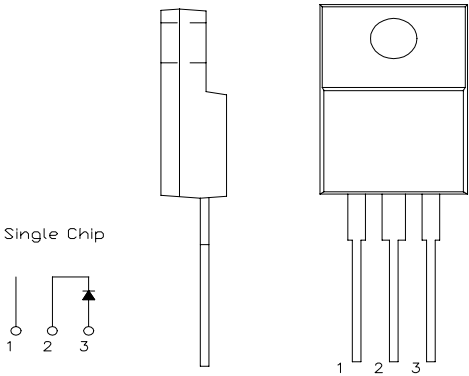


FRD Type : **FSF05A20B**

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



Maximum Ratings

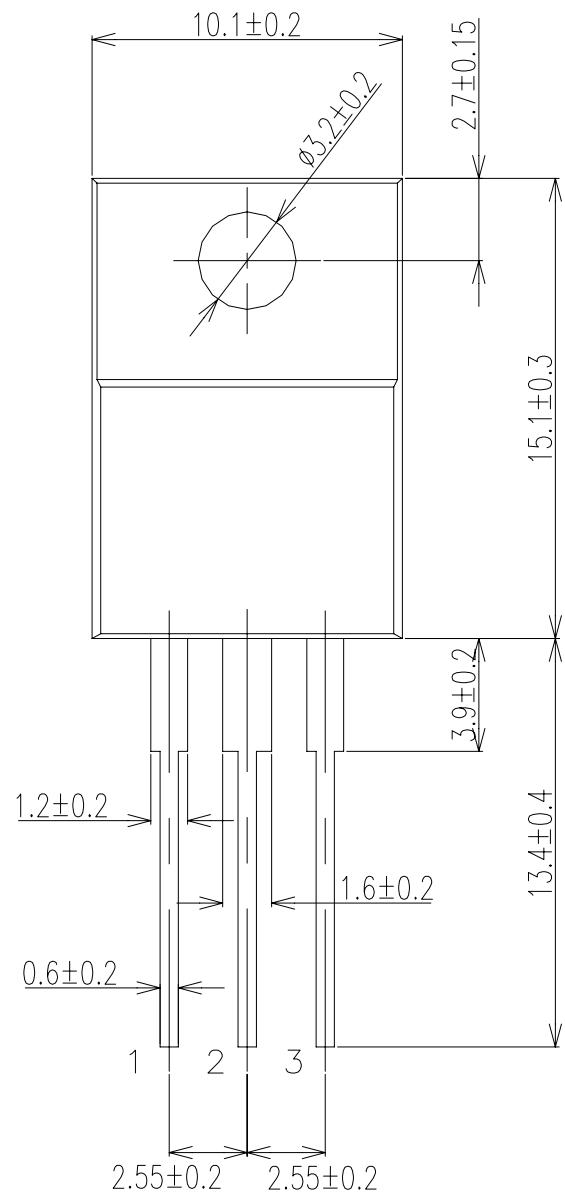
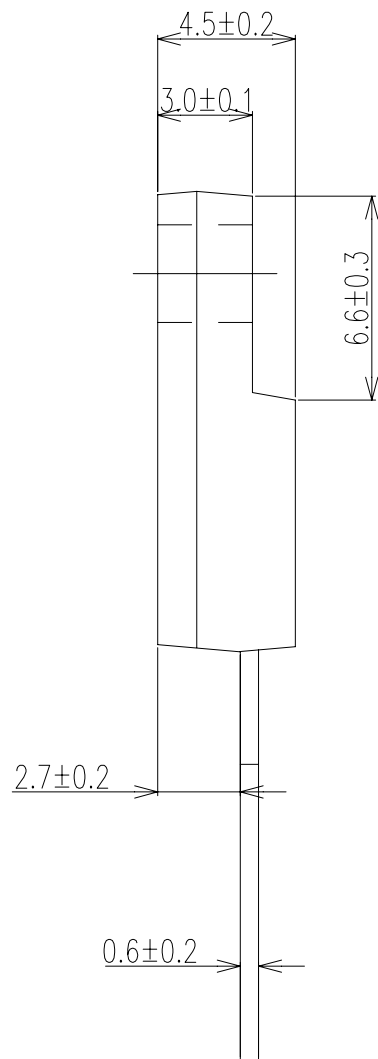
Approx Net Weight:1.75g

Rating	Symbol	FSF05A20B			Unit
Repetitive Peak Reverse Voltage	V _{RRM}	200			V
Non-repetitive Peak Reverse Voltage	V _{RSM}	220			
Average Rectified Output Current	I _O	5	Tc=122℃	50 Hz Half Sine Wave Resistive Load	A
RMS Forward Current	I _{F(RMS)}	7.85			A
Surge Forward Current	I _{FSM}	80	50 Hz Half 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

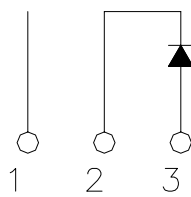
Electrical • Thermal Characteristics

Characteristics	Symbol	Conditions	Min.	Typ.	Max.	Unit
Peak Reverse Current	I_{RM}	$T_j= 25^{\circ}C, V_{RM}= V_{RRM}$	-	-	20	μA
Peak Forward Voltage	V_{FM}	$T_j= 25^{\circ}C, I_{FM}= 5A$	-	-	0.98	V
Reverse Recovery Time	t_{rr}	$I_{FM}= 5A,$ $-di/dt= 50 A/\mu s, T_a= 25^{\circ}C$	-	-	35	ns
Thermal Resistance	$R_{th(j-c)}$	Junction to Case	-	-	5	$^{\circ}C/W$
	$R_{th(c-f)}$	Case to Fin	-	-	1.5	

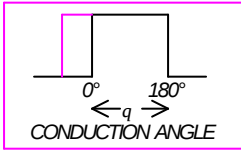
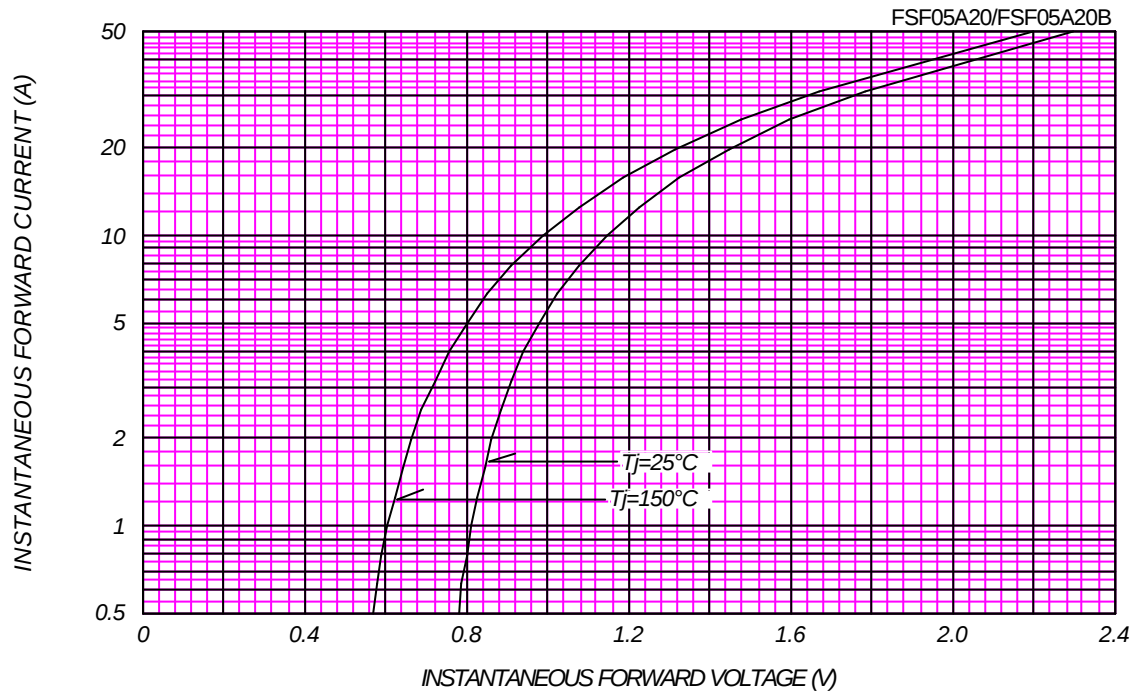
FSF_A_B OUTLINE DRAWING (Dimensions in mm)



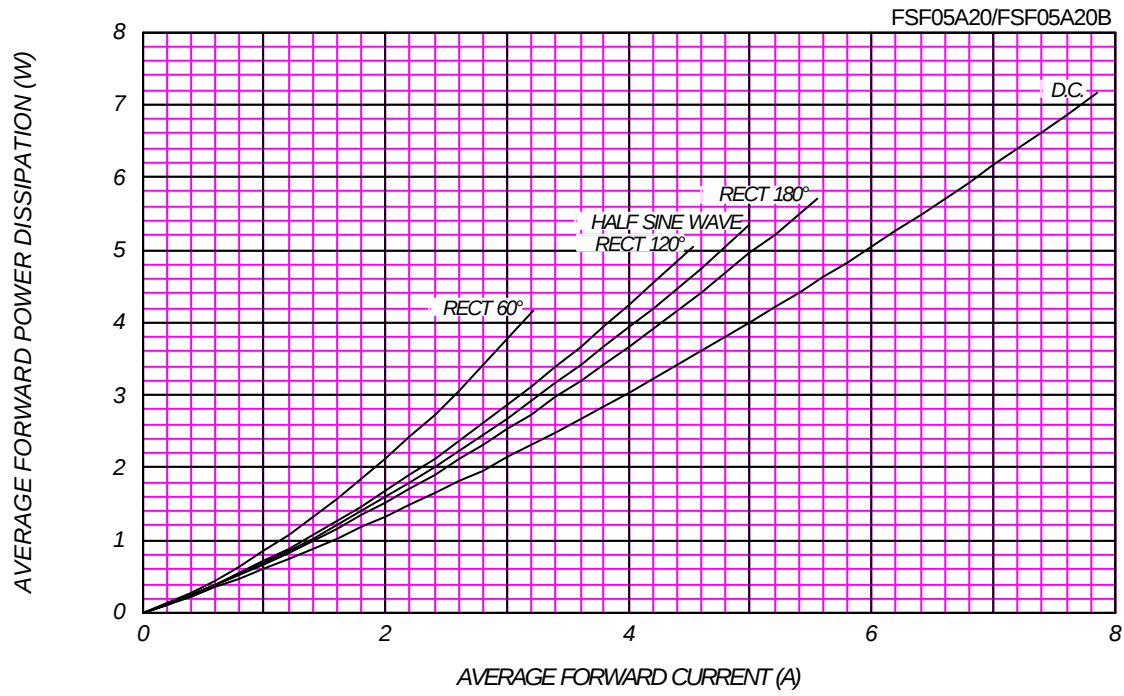
Single Chip

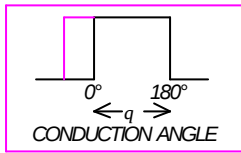


FORWARD CURRENT VS. VOLTAGE

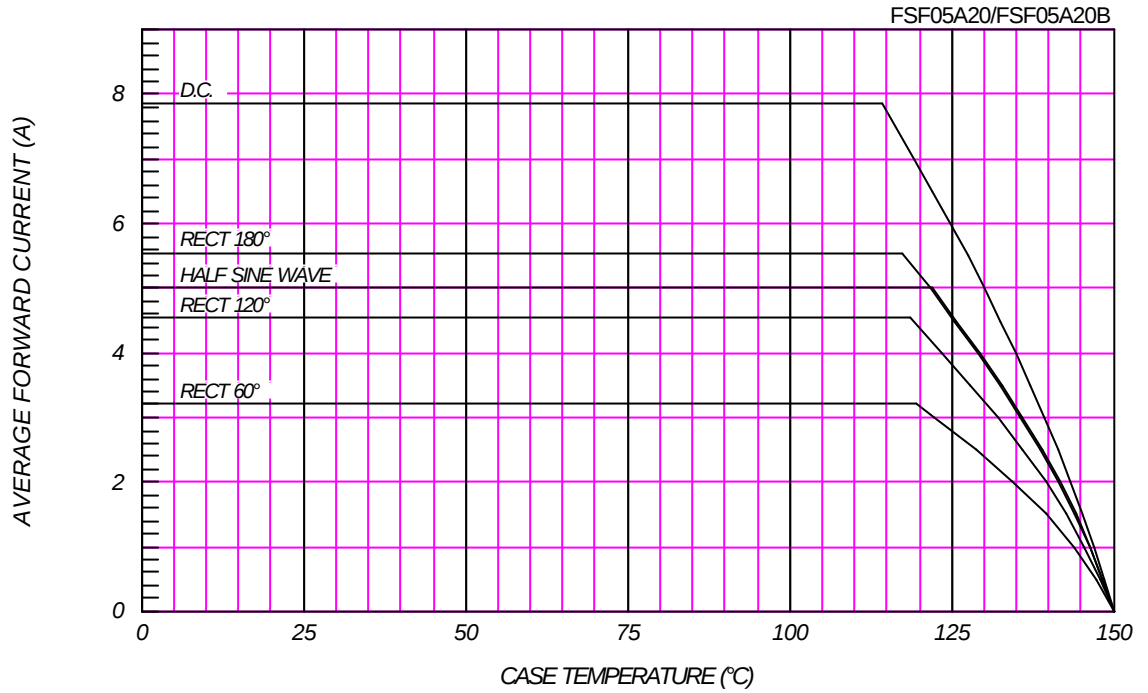


AVERAGE FORWARD POWER DISSIPATION





AVERAGE FORWARD CURRENT VS. CASE TEMPERATURE



SURGE CURRENT RATINGS

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

