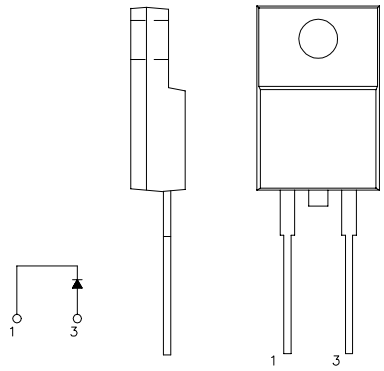
Nihon Inter Electronics Corporation

FRD Type : FSF05A20

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

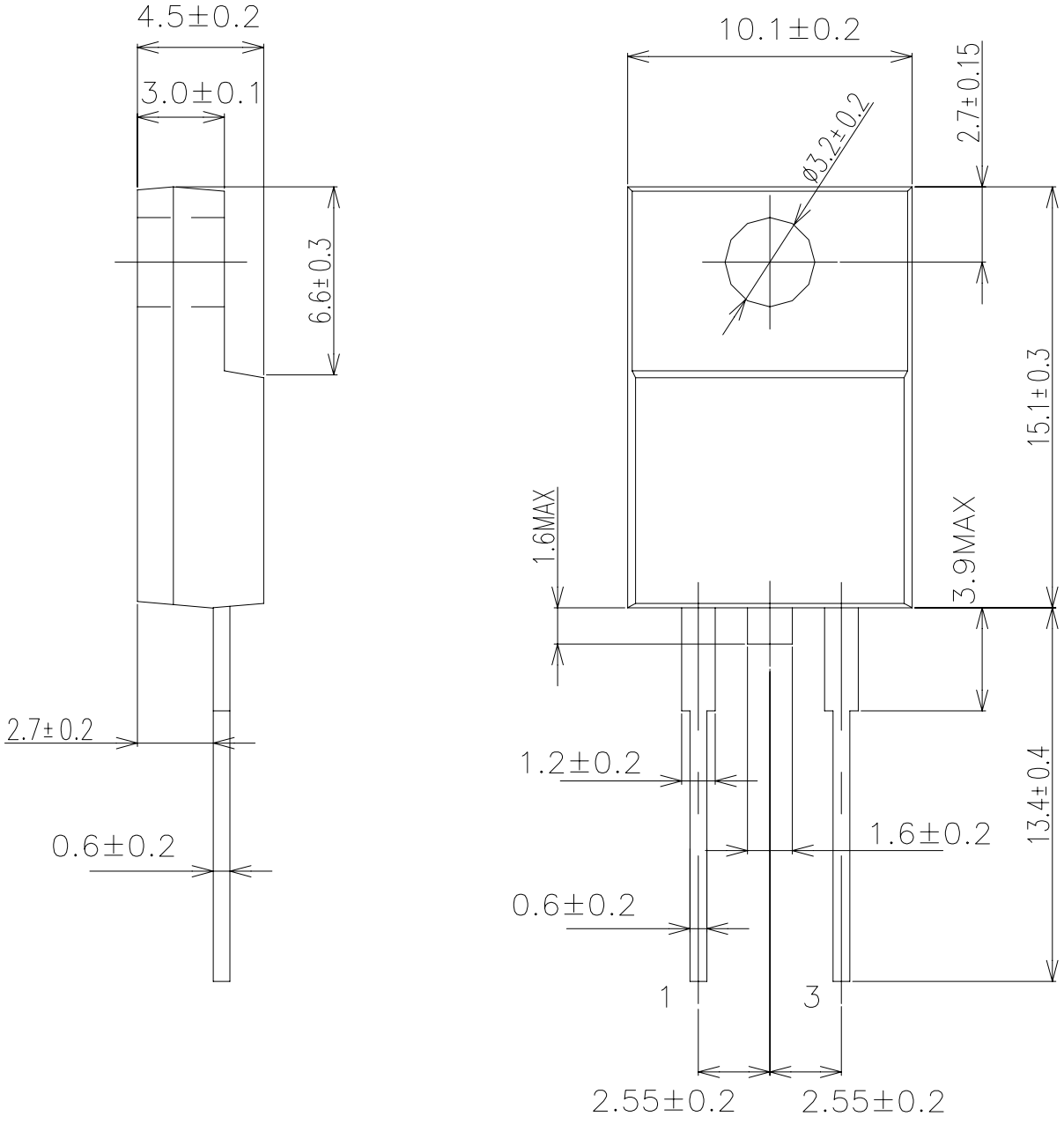
Approx Net Weight:1.7g

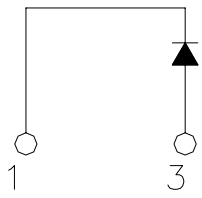
Rating	Symbol	FSF05A20			Unit
Repetitive Peak Reverse Voltage	V_{RRM}	200			V
Non-repetitive Peak Reverse Voltage	V_{RSM}	220			
Average Rectified Output Current	I_O	5	Tc=122℃	50 Hz Half Sine Wave Resistive Load	A
RMS Forward Current	$I_{F(RMS)}$	7.85			A
Surge Forward Current	I_{FSM}	80	50 Hz Half Sine Wave,1cycle Non-repetitive		A
Operating JunctionTemperature Range	Tjw	- 40 to + 150			℃
Storage Temperature Range	Tstg	- 40 to + 150			℃
Mounting torque		0.5	Recommended value		N•m

Electrical • Thermal Characteristics

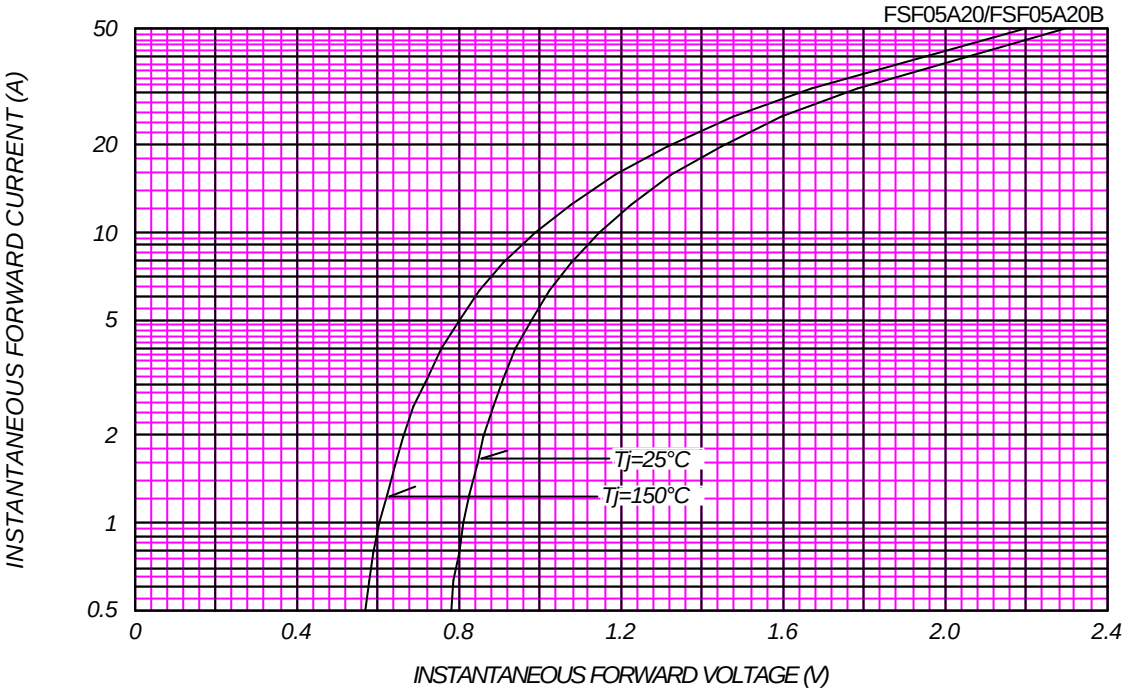
Characteristics	Symbol	Conditions	Min.	Typ.	Max.	Unit
Peak Reverse Current	I_{RM}	Tj= 25℃, V_{RM}= V_{RRM}	-	-	20	μA
Peak Forward Voltage	V_{FM}	Tj= 25℃, I_{FM}= 5A	-	-	0.98	V
Reverse Recovery Time	trr	I_{FM}= 5A, -di/dt= 50 A/μs, Ta= 25℃	-	-	35	ns
Thermal Resistance	Rth(j-c)	Junction to Case	-	-	5	℃/W
	Rth(c-f)	Case to Fin	-	-	1.5	

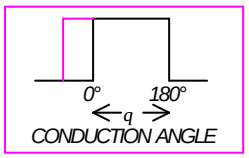
FSF_A_ OUTLINE DRAWING (Dimensions in mm)



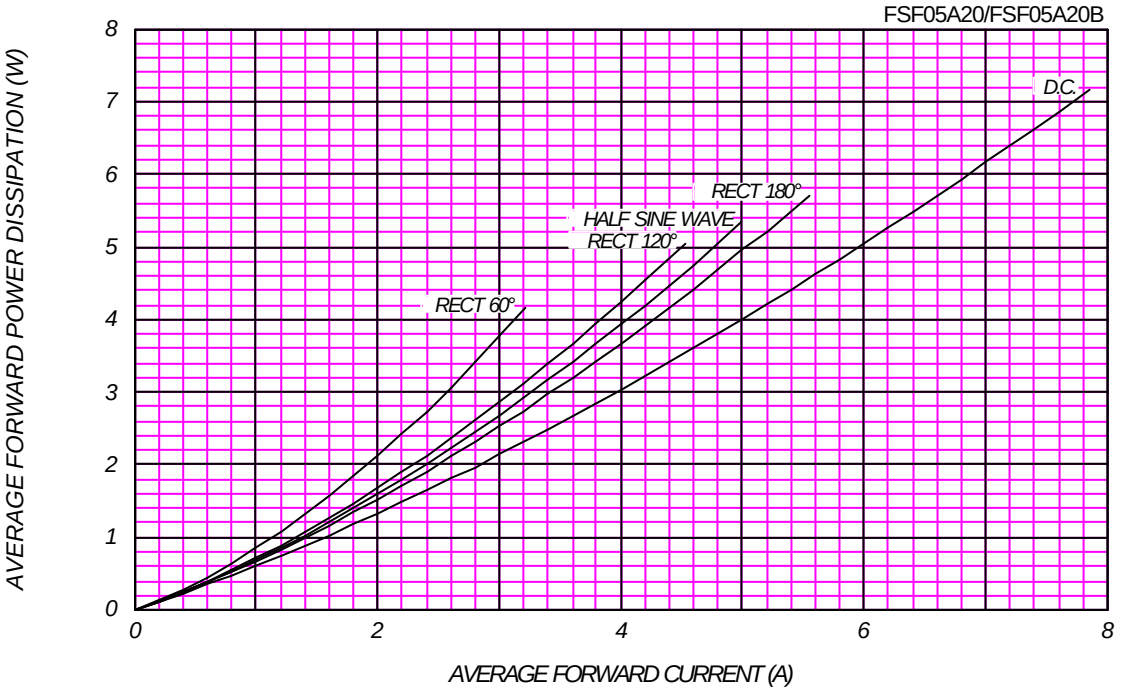


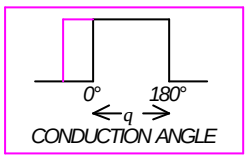
FORWARD CURRENT VS. VOLTAGE



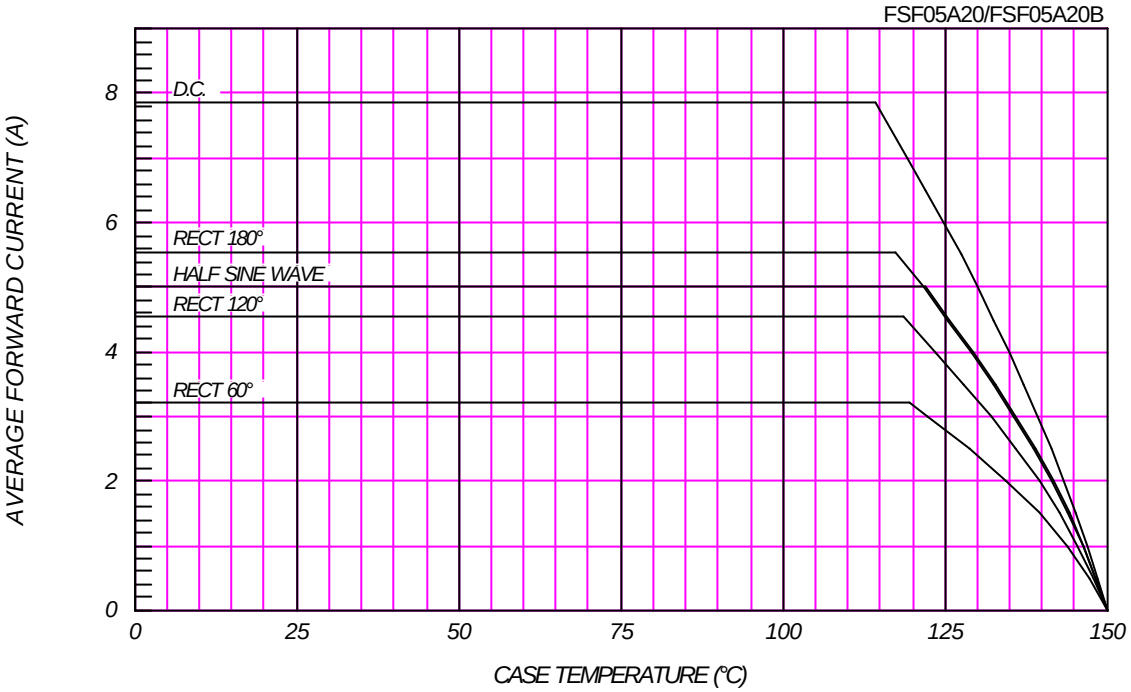


AVERAGE FORWARD POWER DISSIPATION





AVERAGE FORWARD CURRENT VS. CASE TEMPERATURE



SURGE CURRENT RATINGS

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