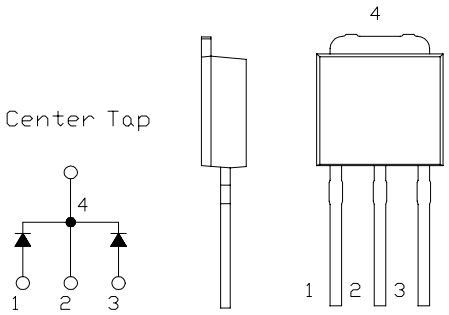
Nihon Inter Electronics Corporation

FRD Type : EA21FC2

OUTLINE DRAWING

FEATURES

* TO-251AA Case
* Ultra – Fast Recovery
* Low Forward Voltage drop
* Low Power Loss
* High Surge Capability
* 200 Volts thru 400 Volts Types Available



Maximum Ratings

Approx Net Weight:0.35g

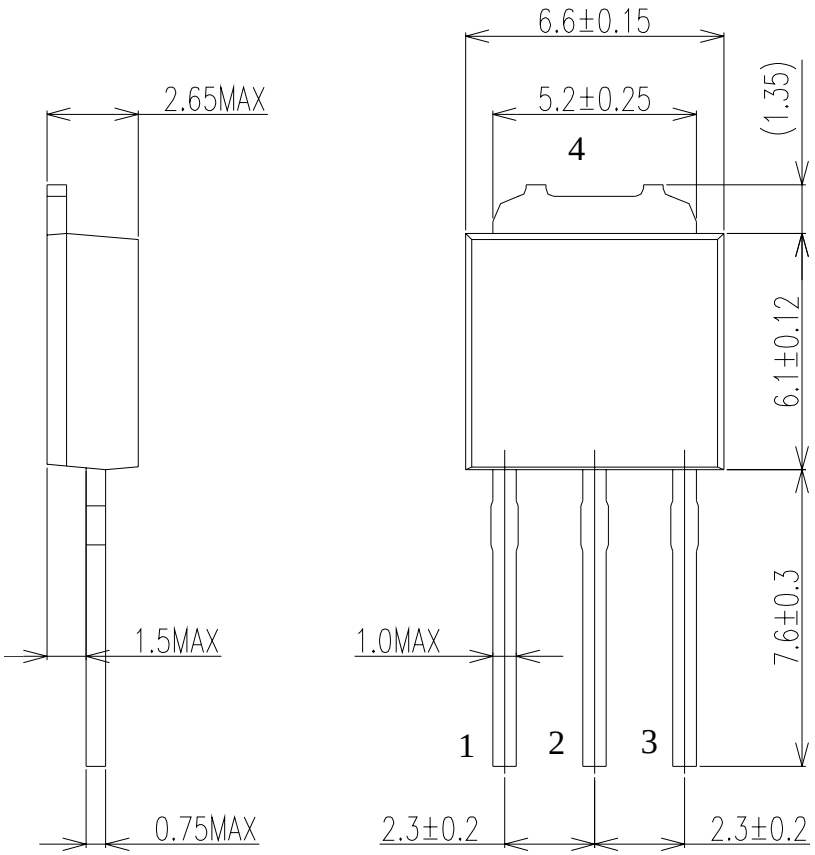
Rating		Symbol	EA21FC2			Unit
Repetitive Peak Reverse Voltage		V_{RRM}	200			V
Non-repetitive Peak Reverse Voltage		V_{RSM}	220			V
Average Rectified Output Current	P.C.Board mounted *	I_O	1.6	Ta=25°C	50Hz Full Sine Wave Resistive Load	A
	-		2	Tc=136°C		
RMS Forward Current		$I_{F(RMS)}$	2.22			A
Surge Forward Current		I_{FSM}	30	50Hz Full Sine Wave,1cycle, Non-repetitive		A
Operating JunctionTemperature Range		Tjw	- 40 to + 150			°C
Storage Temperature Range		Tstg	- 40 to + 150			°C

Electrical • Thermal Characteristics

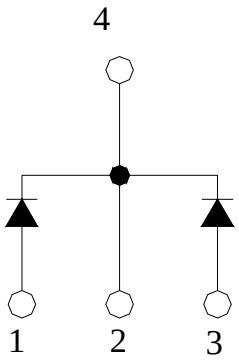
Characteristics		Symbol	Conditions	Min	Typ	Max	Unit
Peak Reverse Current		I_{RM}	Tj=25°C,V_{RM}=V_{RRM} per Arm	-	-	10	μA
Peak Forward Voltage		V_{FM}	Tj=25°C,I_{FM}= 1 A per Arm	-	-	0.98	V
Reverse Recovery Time		trr	I_{FM}= 1 A, -di/dt= 50 A/μs, Ta= 25°C	-	-	30	ns
Thermal Resistance	Junction to Ambient	Rth(j-a)	P.C.Board mounted *	-	-	80	°C/W
	Junction to Case	Rth(j-c)	-	-	-	6	°C/W

* Print Land = 20x20 mm

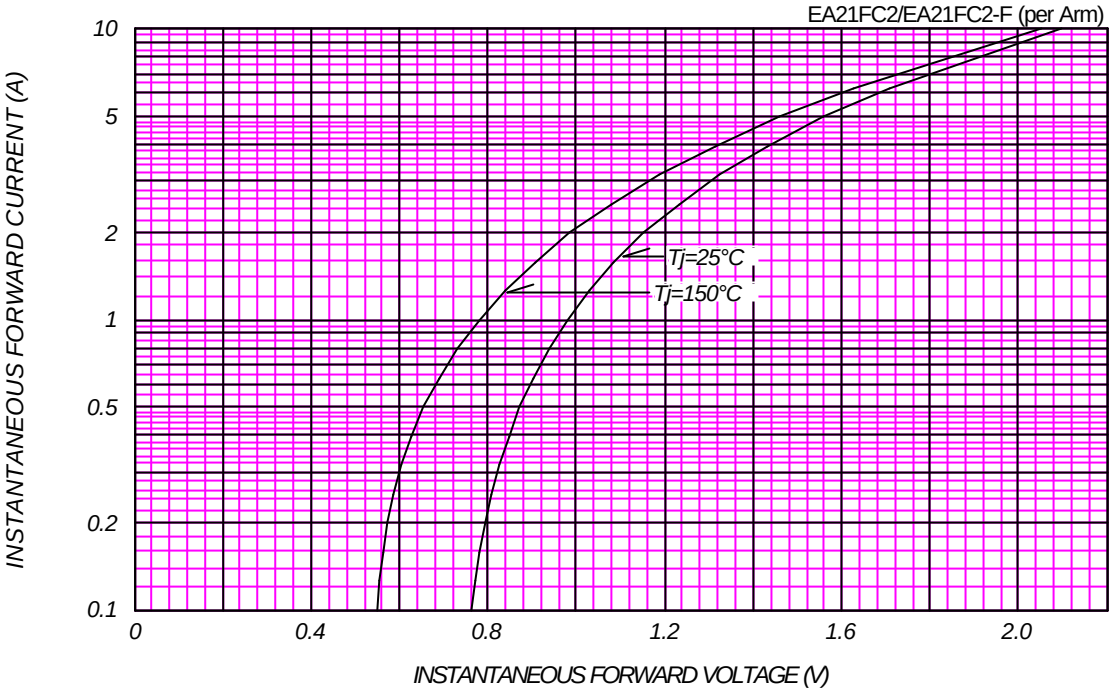
EA21FC2 OUTLINE DRAWING (Dimensions in mm)

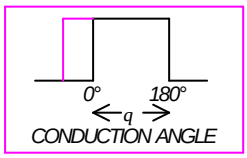


Center Tap

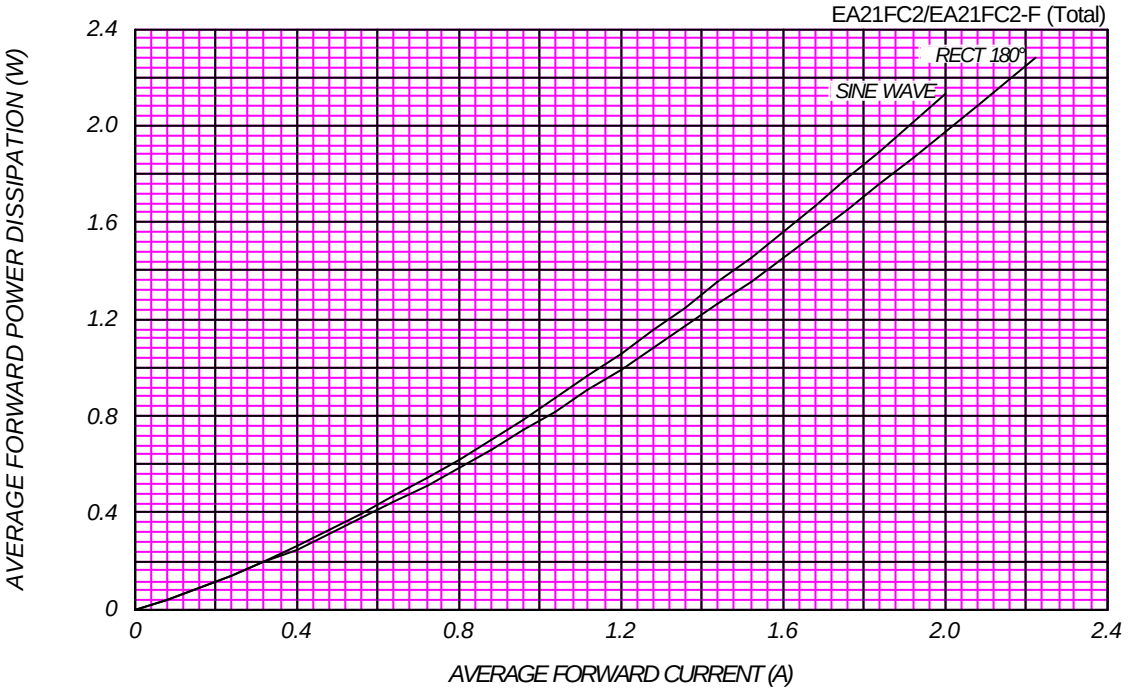


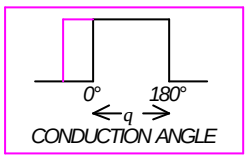
FORWARD CURRENT VS. VOLTAGE



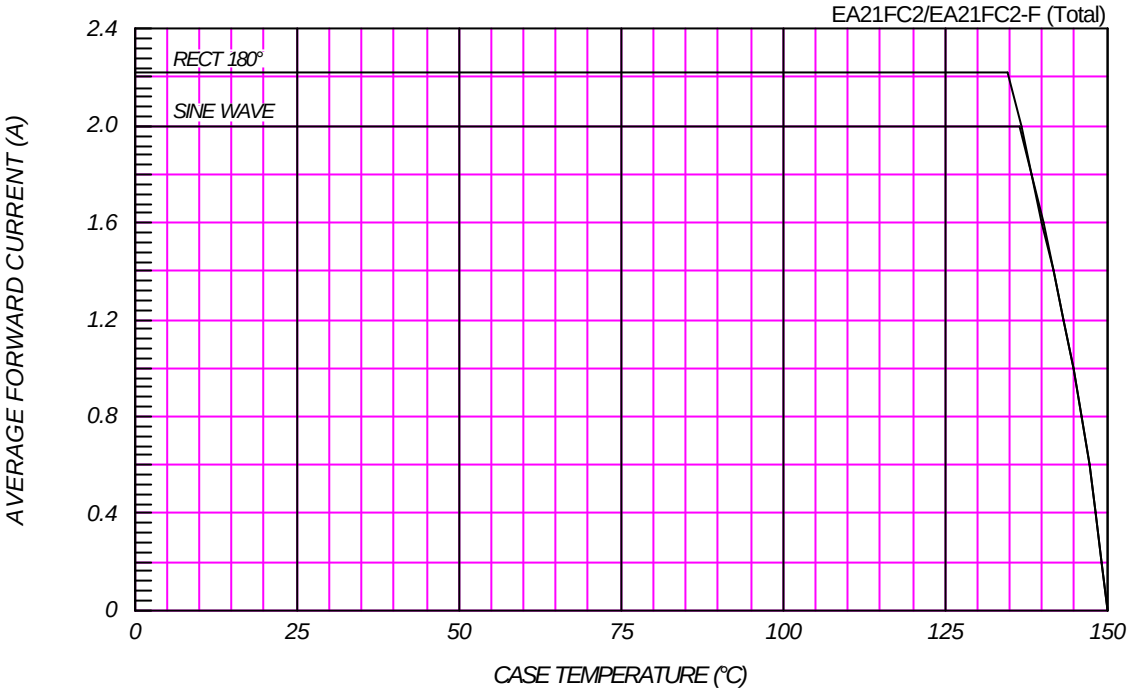


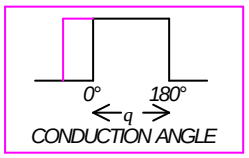
AVERAGE FORWARD POWER DISSIPATION



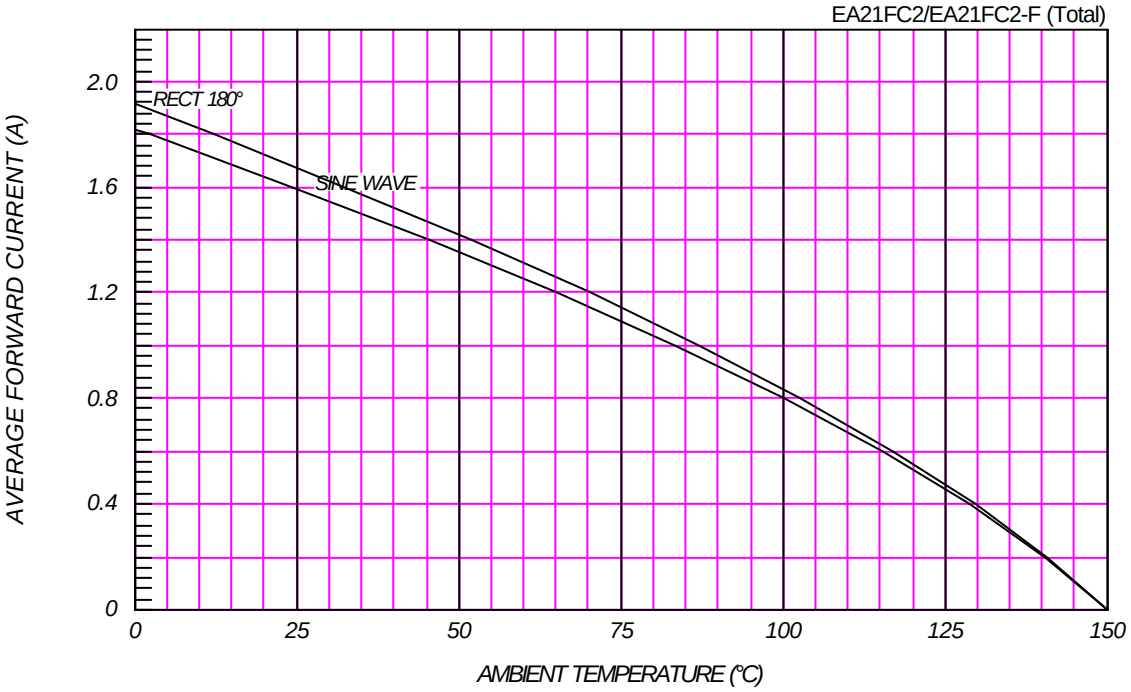


AVERAGE FORWARD CURRENT VS. CASE TEMPERATURE





AVERAGE FORWARD CURRENT VS. AMBIENT TEMPERATURE



SURGE CURRENT RATINGS

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

EA21FC2/EA21FC2-F

