Nihon Inter Electronics Corporation

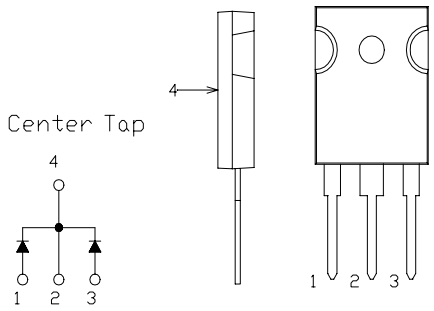
FRD Type : KCU20A30

OUTLINE DRAWING

20A 300V 35ns

FEATURES

* Similar to TO-247AC Case
* Dual Diodes – Cathode Common
* Ultra – Fast Recovery
* Low Forward Voltage Drop
* High Surge Capability



APPLICATIONS

* For Plasma Display Panel
* For Movable Communication Base Power Supply

Maximum Ratings

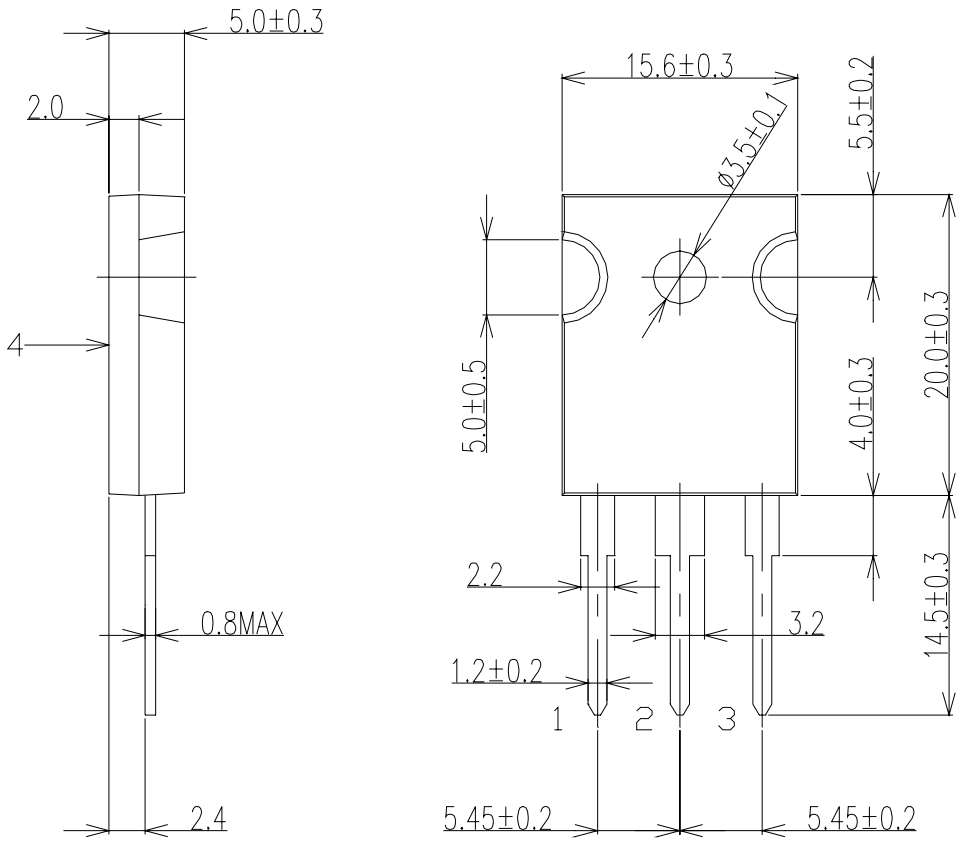
Approx Net Weight:5.55g

Rating	Symbol	KCU20A30			Unit
Repetitive Peak Reverse Voltage	V_{RRM}	300			V
Average Rectified Output Current	I_O	20	Tc=90℃	50 Hz,Full Sine Wave Resistive Load	A
RMS Forward Current	$I_{F(RMS)}$	22.2			A
Surge Forward Current	I_{FSM}	120	50 Hz Full 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

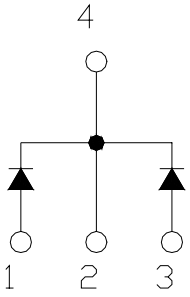
Electrical • Thermal Characteristics

Characteristics	Symbol	Conditions	Min.	Typ.	Max.	Unit
Peak Reverse Current	I_{RM}	Tj=25℃,V_{RM}=V_{RRM} per Arm	-	-	25	μA
Peak Forward Voltage	V_{FM}	Tj=25℃, I_{FM}=10A per Arm	-	1.2	1.4	V
Reverse Recovery Time	trr	I_{FM}= 10 A, -di/dt= 50 A/μs, Tj= 25℃	-	23	35	ns
Thermal Resistance	Rth(j-c)	Junction to Case	-	-	2	℃/W

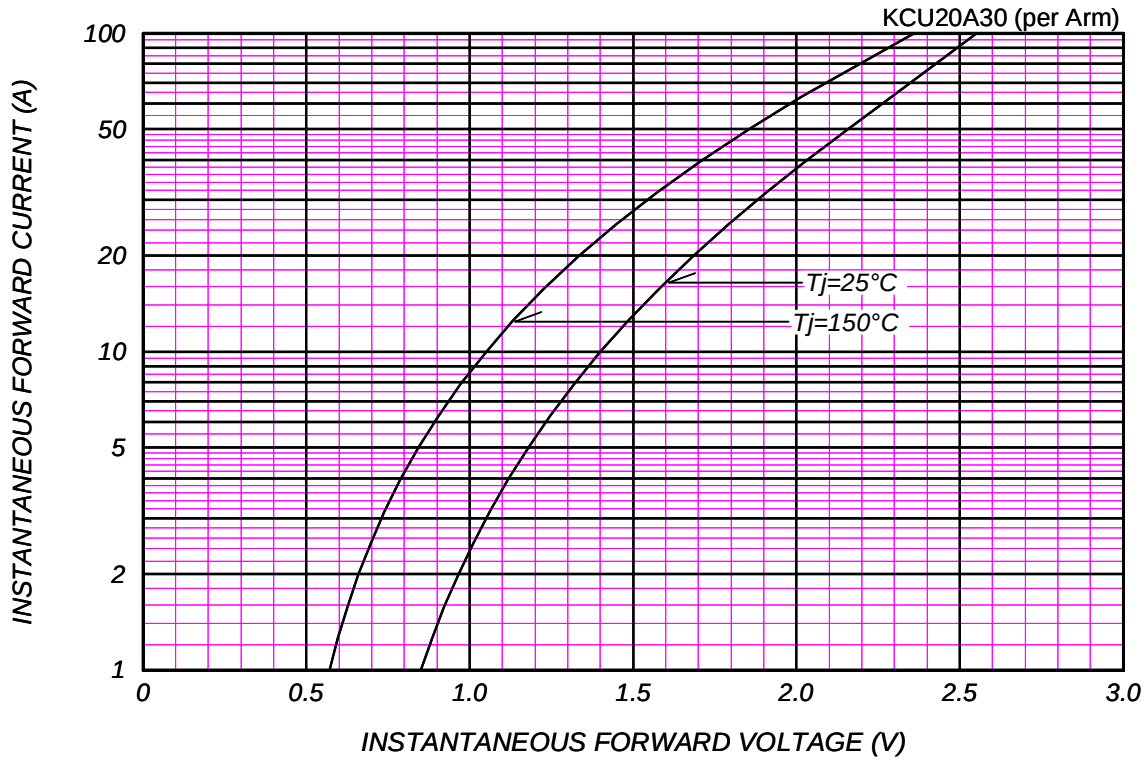
KCU20A30 OUTLINE DRAWING (Dimensions in mm)

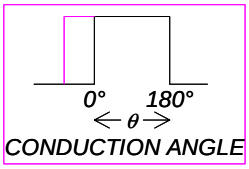


Center Tap

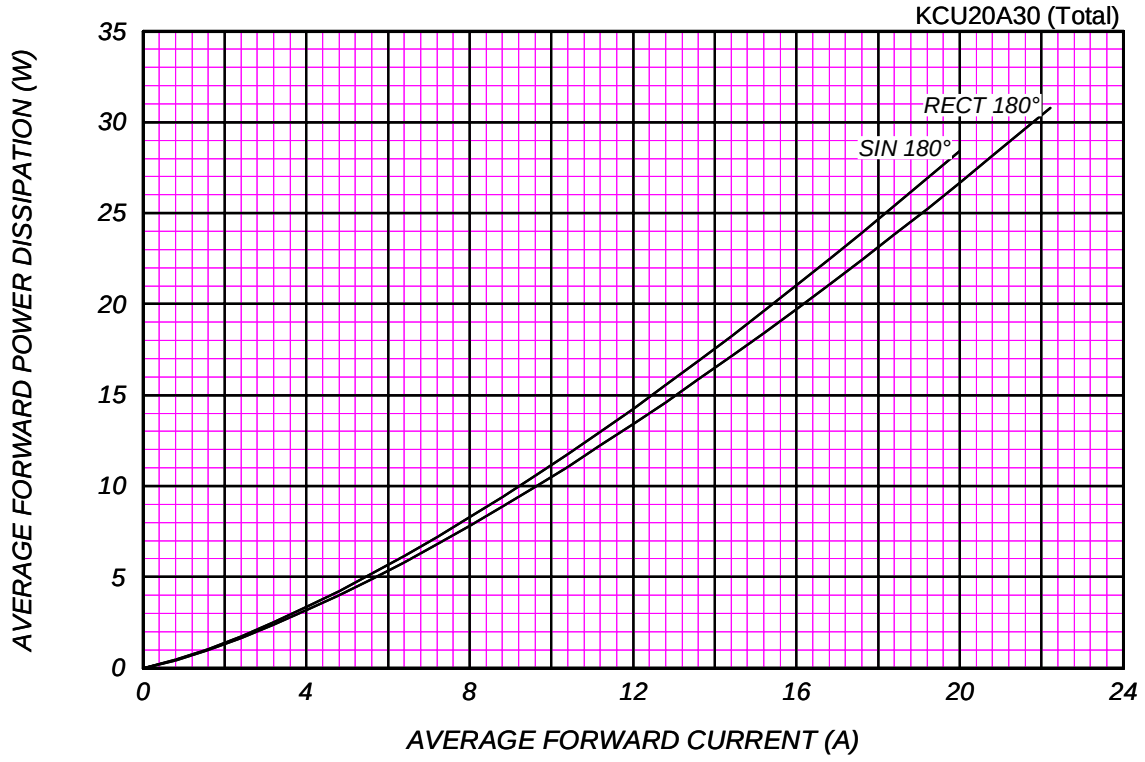


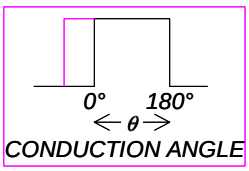
FORWARD CURRENT VS. VOLTAGE





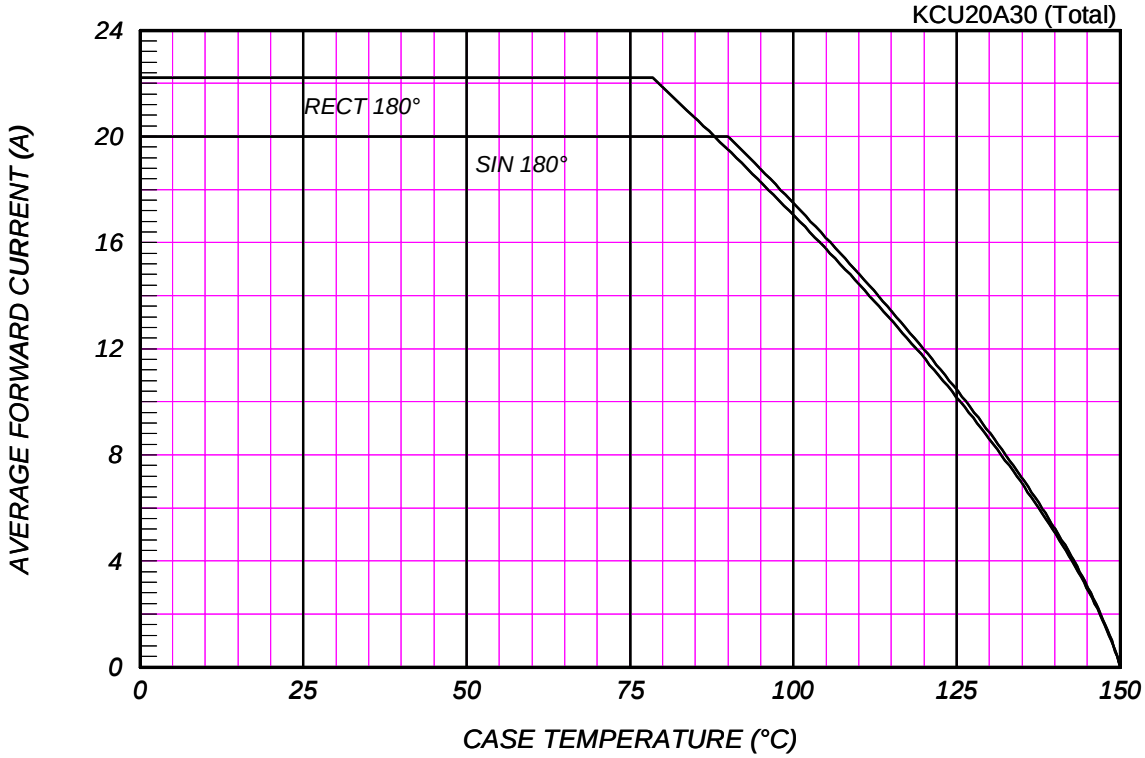
AVERAGE FORWARD POWER DISSIPATION





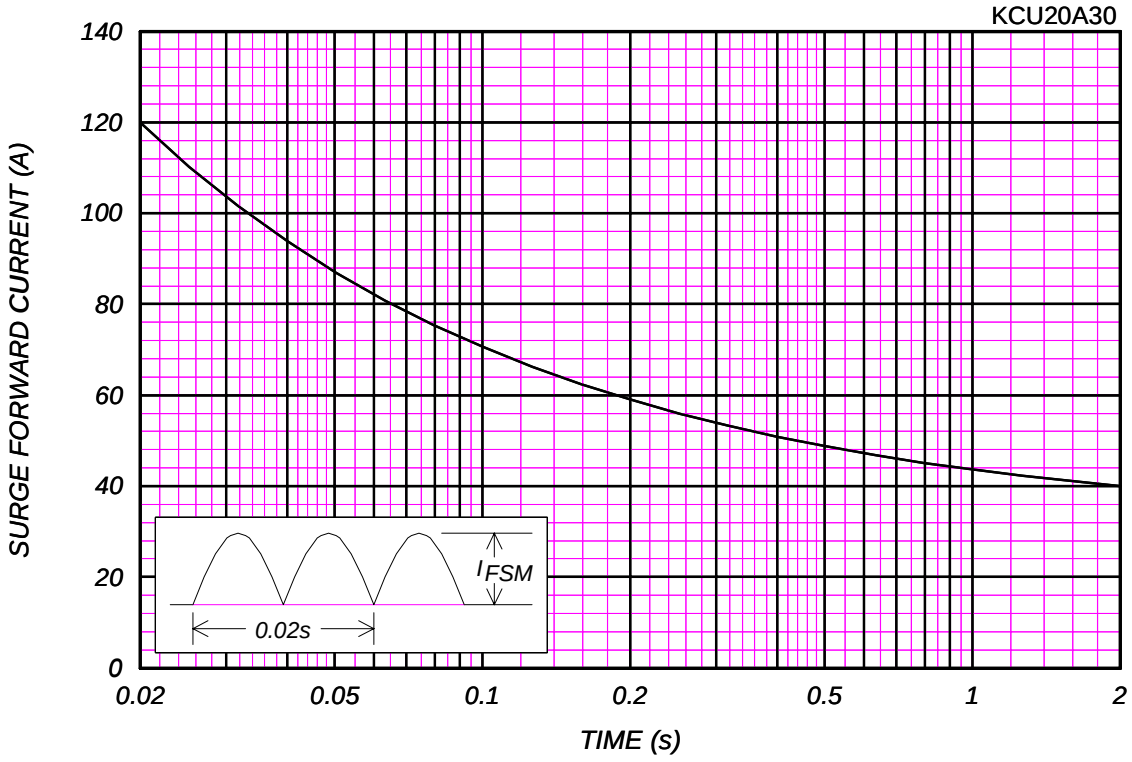
AVERAGE FORWARD CURRENT VS. CASE TEMPERATURE

V_{RM}=300V



SURGE CURRENT RATINGS

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



RMS SURGE CURRENT RATINGS

Ta=40°C,Non-Repetitive,No Load