

FRD Type : KCU20A30

OUTLINE DRAWING

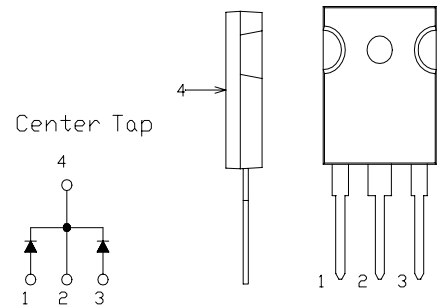
20A 300V 35ns

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

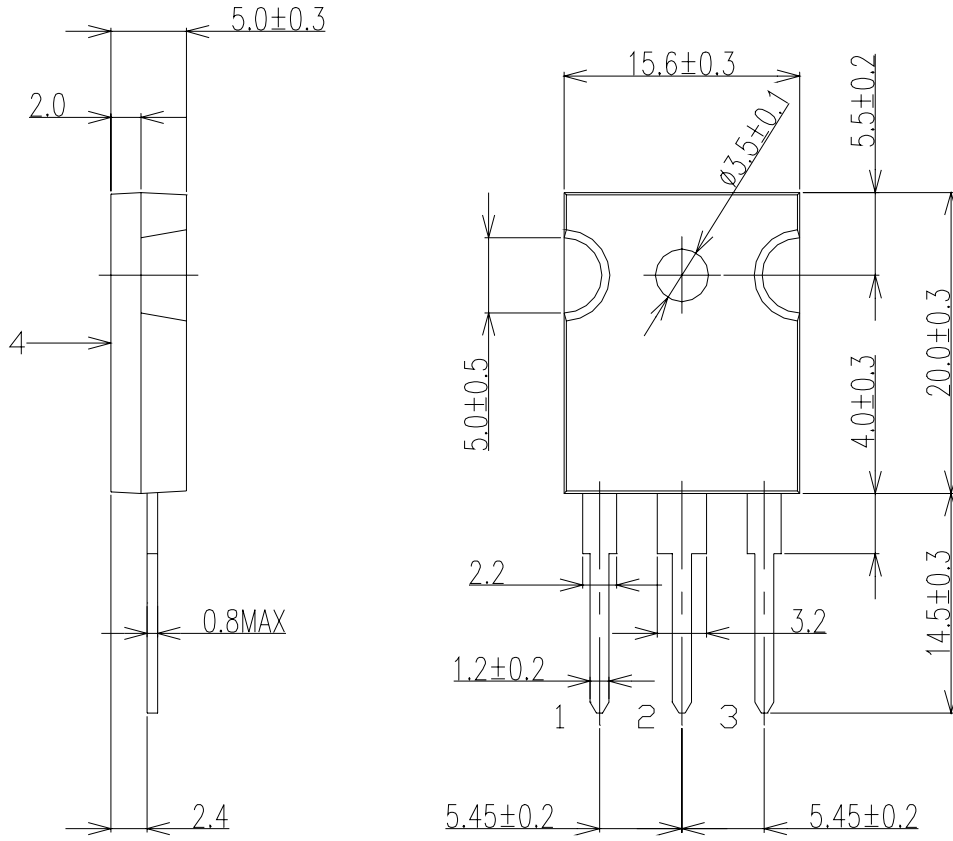
Approx Net Weight:5.55g

Rating	Symbol	KCU20A30		Unit
Repetitive Peak Reverse Voltage	V_{RRM}	300		V
Average Rectified Output Current	I_O	20	$T_c=90^\circ\text{C}$ 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, 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

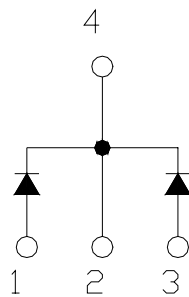
Electrical • Thermal Characteristics

Characteristics	Symbol	Conditions	Min.	Typ.	Max.	Unit
Peak Reverse Current	I_{RM}	$T_j=25^\circ\text{C}, V_{RM}=V_{RRM}$ per Arm	-	-	25	μA
Peak Forward Voltage	V_{FM}	$T_j=25^\circ\text{C}, I_{FM}=10\text{A}$ per Arm	-	1.2	1.4	V
Reverse Recovery Time	t_{rr}	$I_{FM}= 10 \text{ A},$ $-di/dt= 50 \text{ A}/\mu\text{s}, T_j= 25^\circ\text{C}$	-	23	35	ns
Thermal Resistance	$R_{th(j-c)}$	Junction to Case	-	-	2	$^\circ\text{C}/\text{W}$

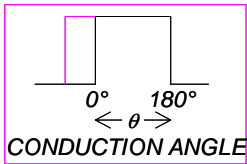
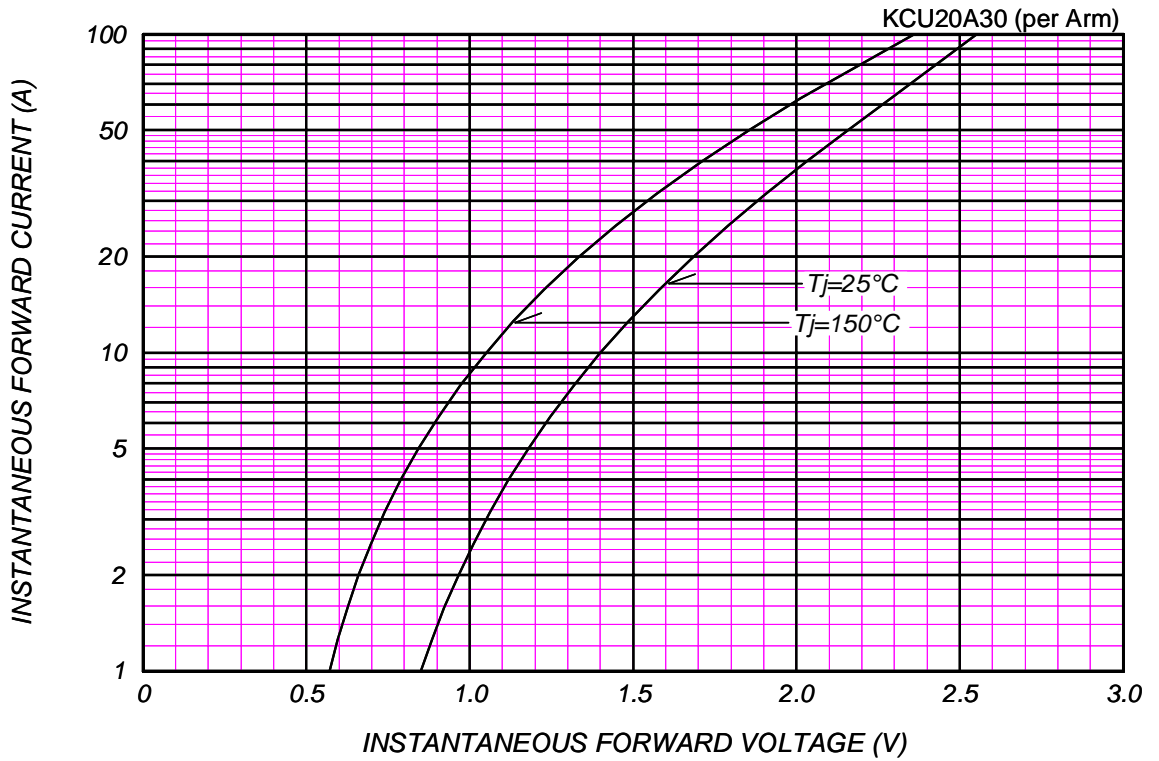
KCU20A30 OUTLINE DRAWING (Dimensions in mm)



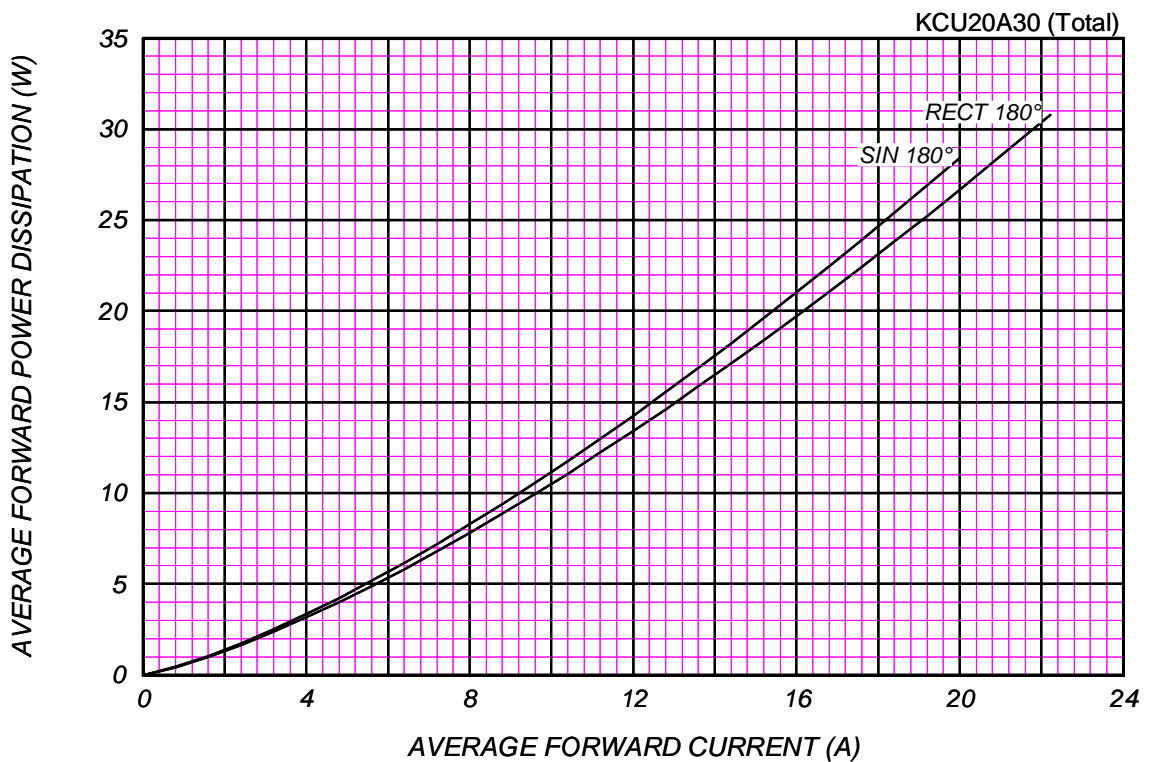
Center Tap

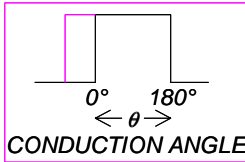


FORWARD CURRENT VS. VOLTAGE



AVERAGE FORWARD POWER DISSIPATION

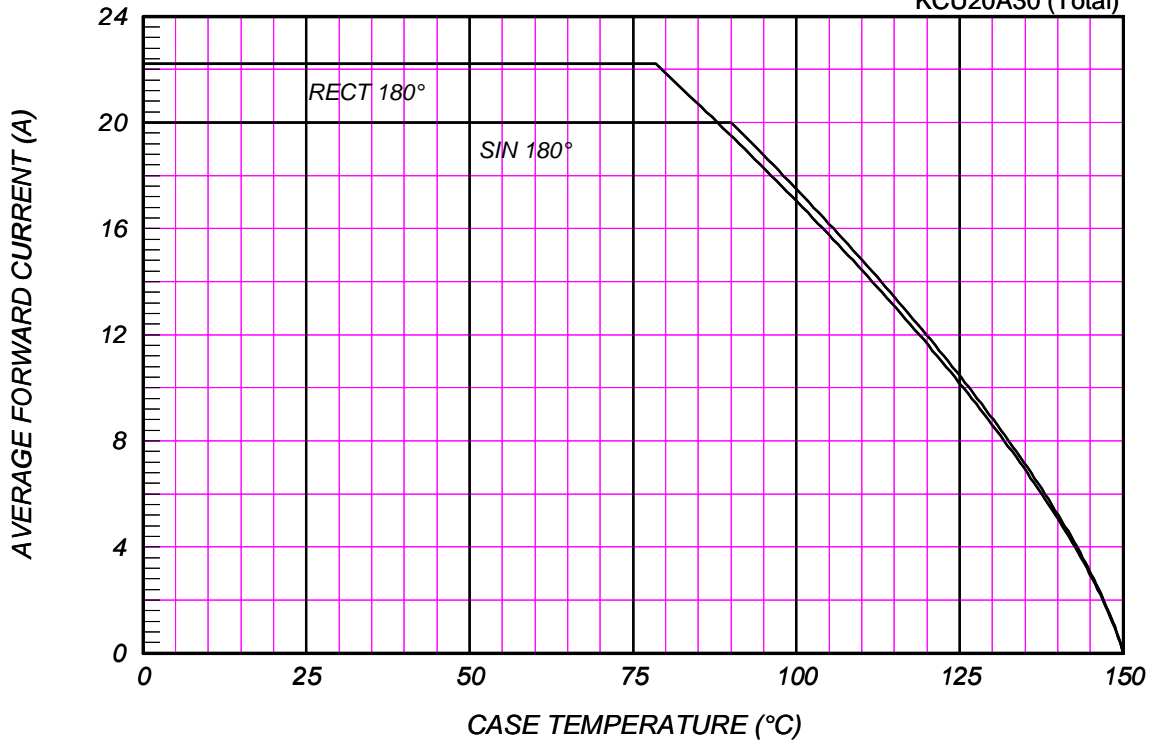




AVERAGE FORWARD CURRENT VS. CASE TEMPERATURE

$V_{RM}=300V$

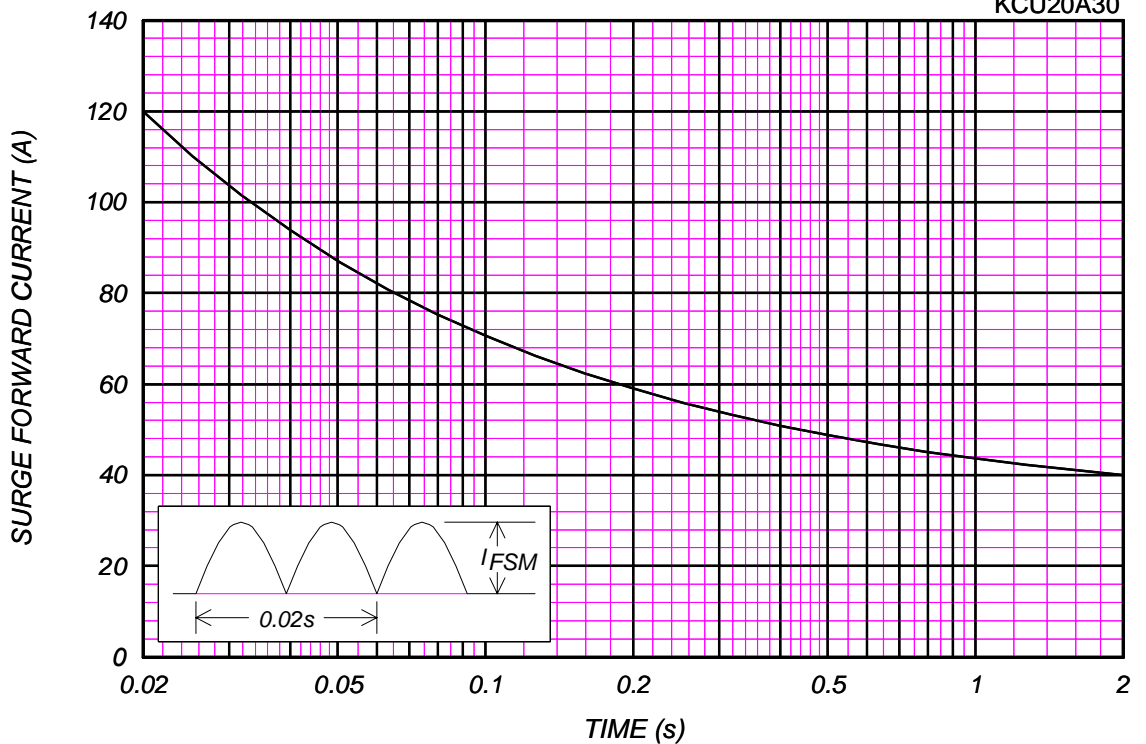
KCU20A30 (Total)



SURGE CURRENT RATINGS

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

KCU20A30



RMS SURGE CURRENT RATINGS

Ta=40°C, Non-Repetitive, No Load

KCU20A30

