



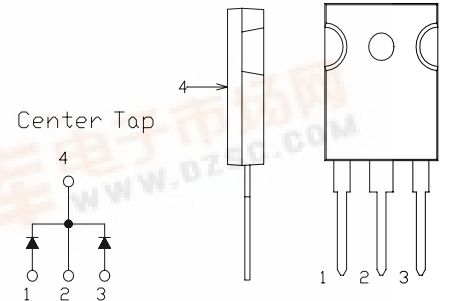
# FRD Type : KCU20B60

## OUTLINE DRAWING

For Power Factor Improvement High Frequency Rectification

### FEATURES

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



### Maximum Ratings

Approx Net Weight:5.55g

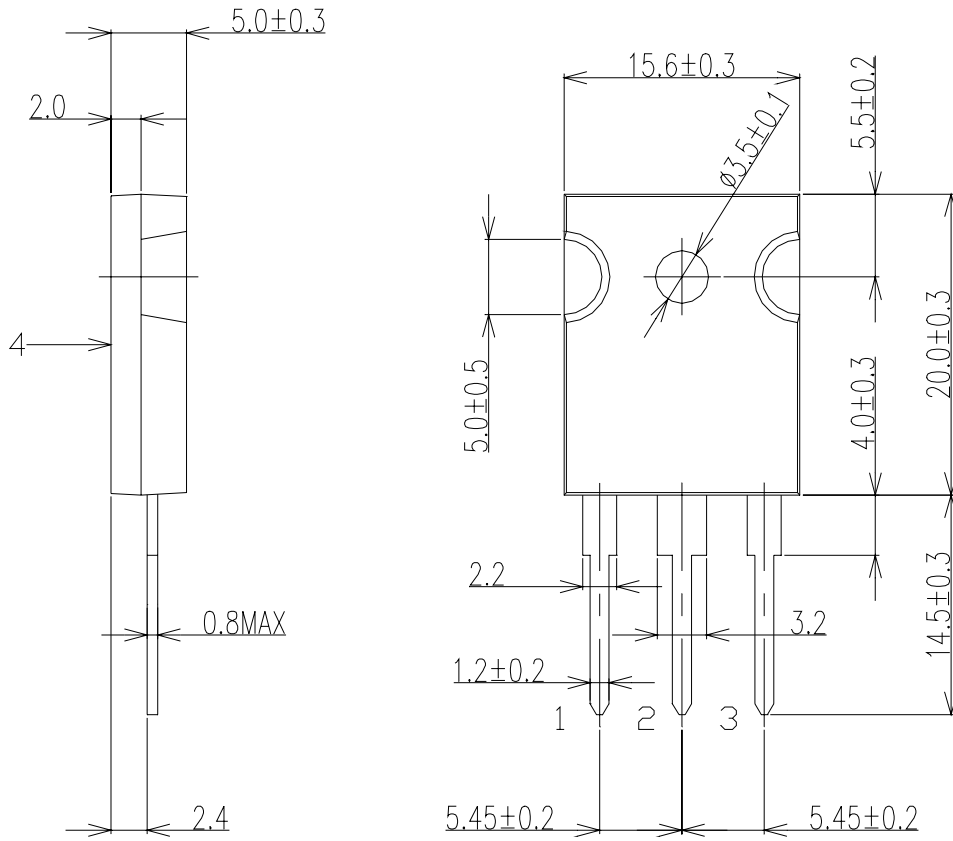
Rating	Symbol	KCU20B60		Unit
Repetitive Peak Reverse Voltage	$V_{RRM}$	600		V
Average Rectified Output Current	$I_o$	20	$T_c=50^{\circ}C$ 50 Hz, Full Sine Wave Resistive Load	A
RMS Forward Current	$I_{F(RMS)}$	22.2		A
Surge Forward Current	$I_{FSM}$	100	50 Hz Full Sine Wave, 1 cycle Non-repetitive	A
Operating Junction Temperature Range	$T_{jw}$	- 40 to + 150		$^{\circ}C$
Storage Temperature Range	$T_{stg}$	- 40 to + 150		$^{\circ}C$
Mounting torque		0.5	Recommended value	N•m

### Electrical • Thermal Characteristics

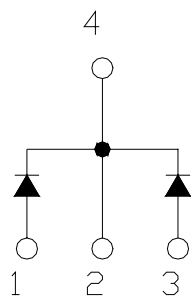
Characteristics	Symbol	Conditions	Min.	Typ.	Max.	Unit
Peak Reverse Current	$I_{RM}$	$T_j=25^{\circ}C, V_{RM}=V_{RRM}$ per Arm	-	-	30	$\mu A$
Peak Forward Voltage	$V_{FM}$	$T_j=25^{\circ}C, I_{FM}=10A$ per Arm	-	2.3	2.7	V
Reverse Recovery Time	trr	$I_{FM}= 10 A,$ $-di/dt= 50 A/\mu s, T_a= 25^{\circ}C$	-	25	40	ns
Thermal Resistance	$R_{th(j-c)}$	Junction to Case	-	-	2	$^{\circ}C/W$



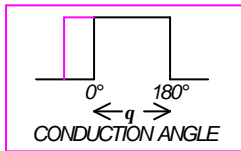
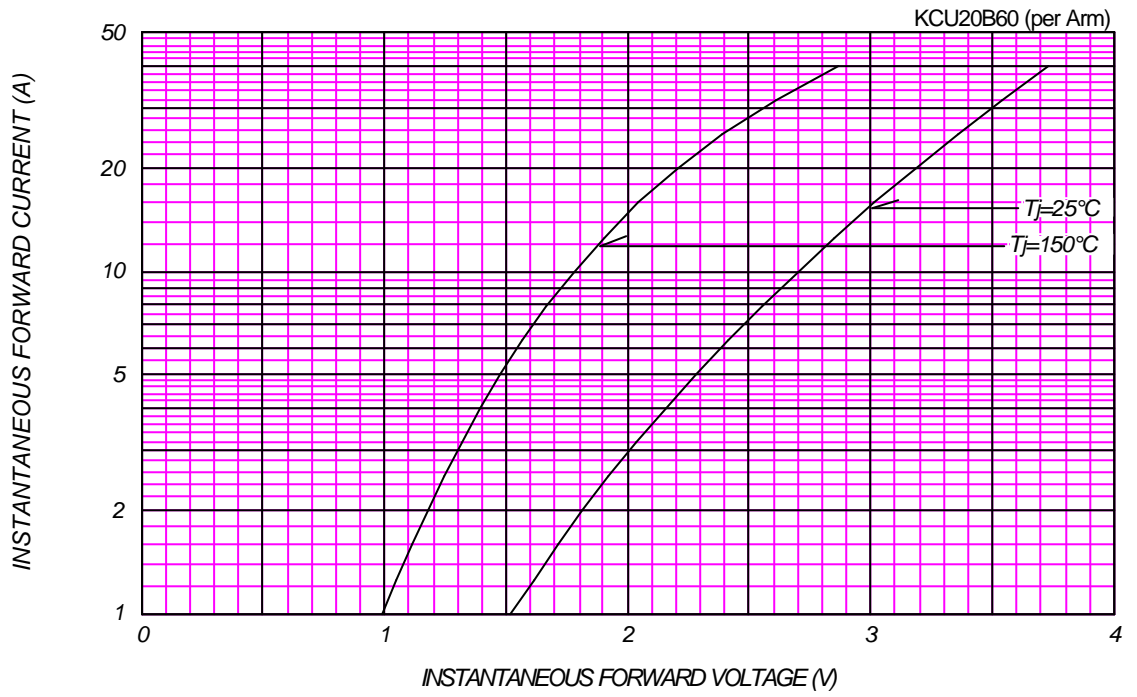
KCU20B60 OUTLINE DRAWING (Dimensions in mm)



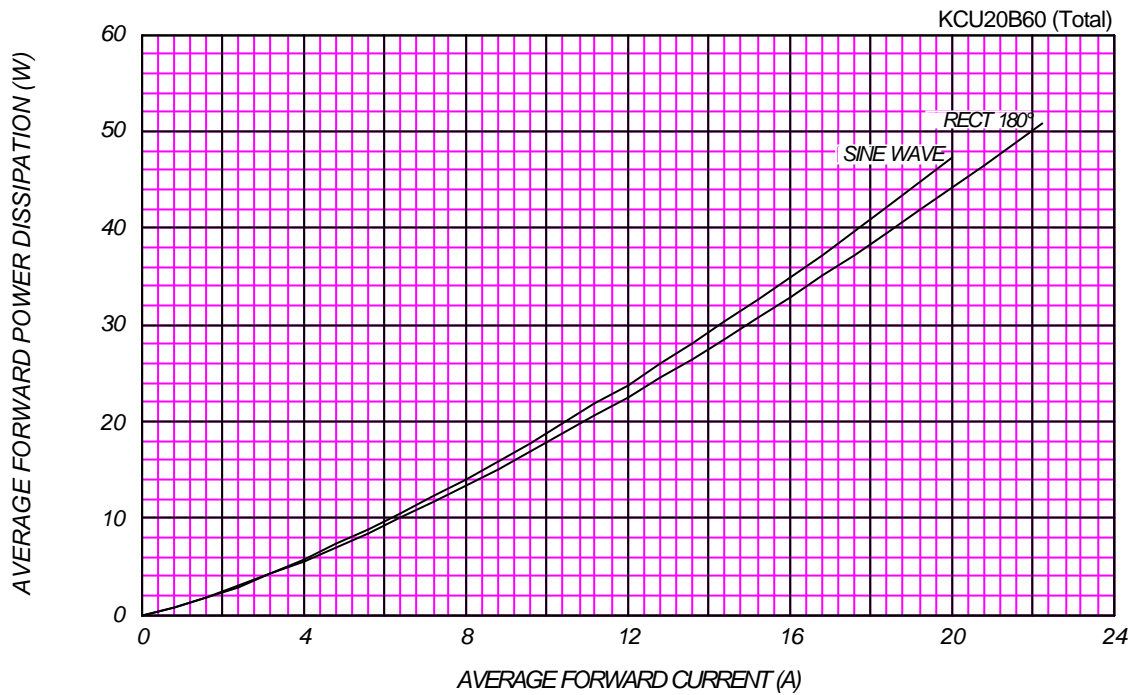
Center Tap

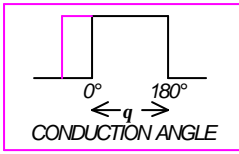


FORWARD CURRENT VS. VOLTAGE

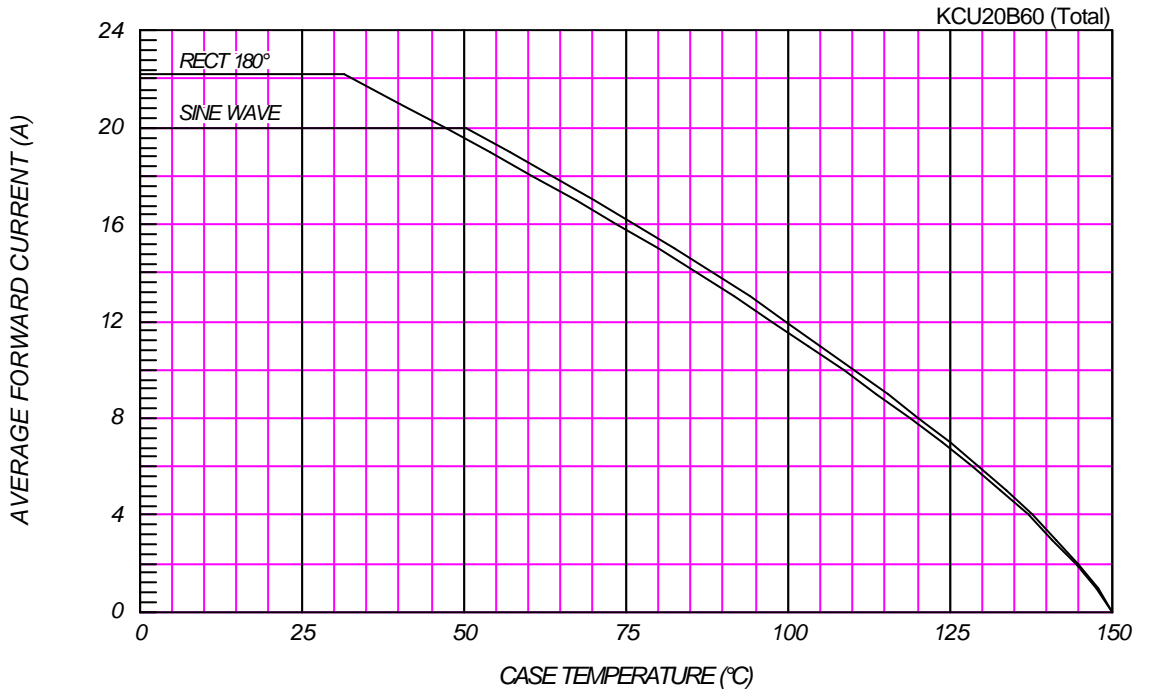


AVERAGE FORWARD POWER DISSIPATION



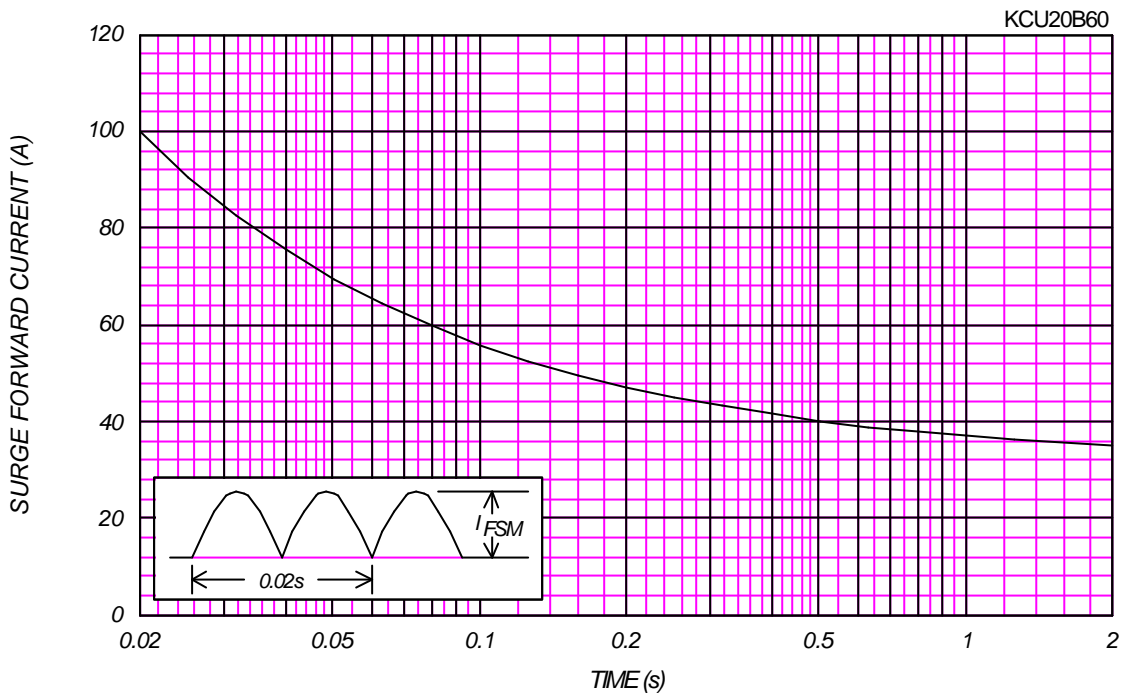


AVERAGE FORWARD CURRENT VS. CASE TEMPERATURE



SURGE CURRENT RATINGS

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



### RMS SURGE CURRENT RATINGS

Ta=40°C, Non-Repetitive, No Load

KCU20B60

