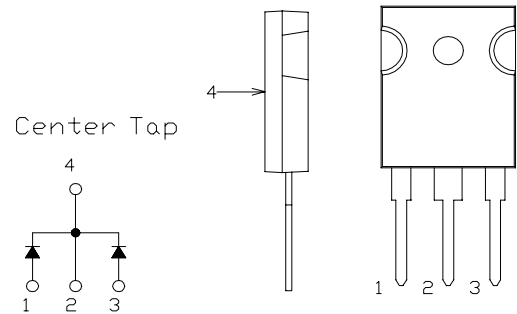


# FRD Type : KCF25A20

## OUTLINE DRAWING

### FEATURES

- \* Similar to TO-247AC (TO-3P) Case
- \* Dual Diodes – Cathode Common
- \* Ultra – Fast Recovery
- \* Low Forward Voltage Drop
- \* High Surge Capability
- \* 200 Volts thru 400 Volts Types Available



### Maximum Ratings

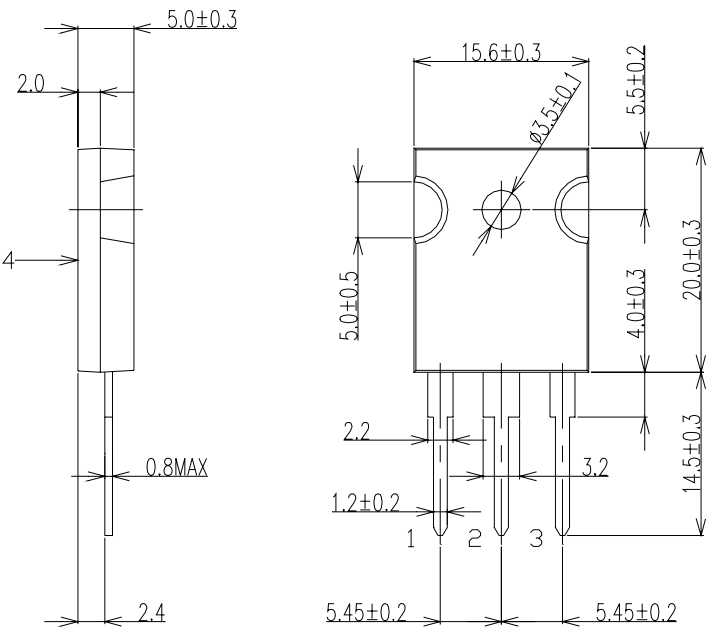
Approx Net Weight:5.55g

Rating	Symbol	KCF25A20			Unit
Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	200			V
Non-repetitive Peak Reverse Voltage	V <sub>RSM</sub>	220			V
Average Rectified Output Current	I <sub>O</sub>	25	Tc=93℃	50 Hz,Full Sine Wave Resistive Load	A
RMS Forward Current	I <sub>F(RMS)</sub>	28			A
Surge Forward Current	I <sub>FSM</sub>	150	50 Hz Full Sine Wave,1cycle Non-repetitive		A
Operating JunctionTemperature Range	T <sub>jw</sub>	- 40 to + 150			℃
Storage Temperature Range	T <sub>stg</sub>	- 40 to + 150			℃
Mounting torque		0.5	Recommended value		N•m

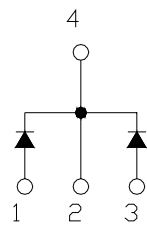
### Electrical • Thermal Characteristics

Characteristics	Symbol	Conditions	Min.	Typ.	Max.	Unit
Peak Reverse Current	$I_{RM}$	$T_j=25^{\circ}\text{C}$ , $V_{RM}=V_{RRM}$ per Arm	-	-	25	$\mu\text{A}$
Peak Forward Voltage	$V_{FM}$	$T_j=25^{\circ}\text{C}$ , $I_{FM}=12.5\text{A}$ per Arm	-	-	0.98	V
Reverse Recovery Time	$t_{rr}$	$I_{FM}=10\text{ A}$ , $-di/dt= 50\text{ A}/\mu\text{s}$ , $T_a= 25^{\circ}\text{C}$	-	-	50	ns
Thermal Resistance	$R_{th(j-c)}$	Junction to Case	-	-	2	$^{\circ}\text{C}/\text{W}$

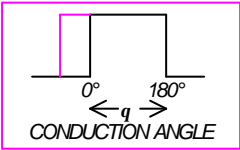
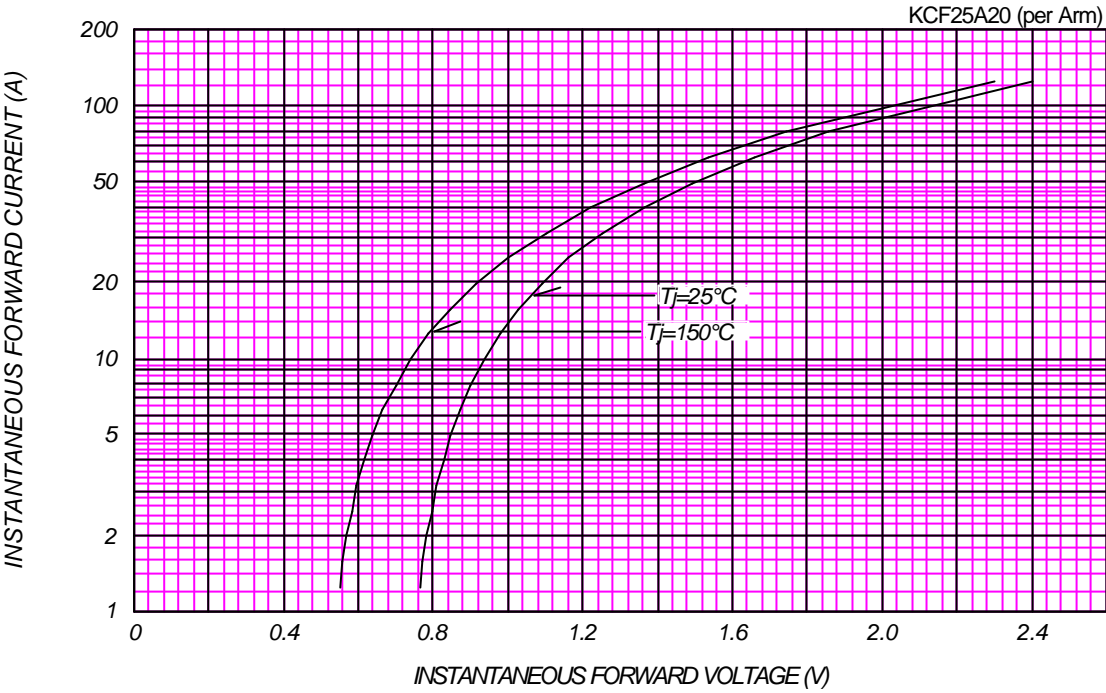
KCF25A20 OUTLINE DRAWING (Dimensions in mm)



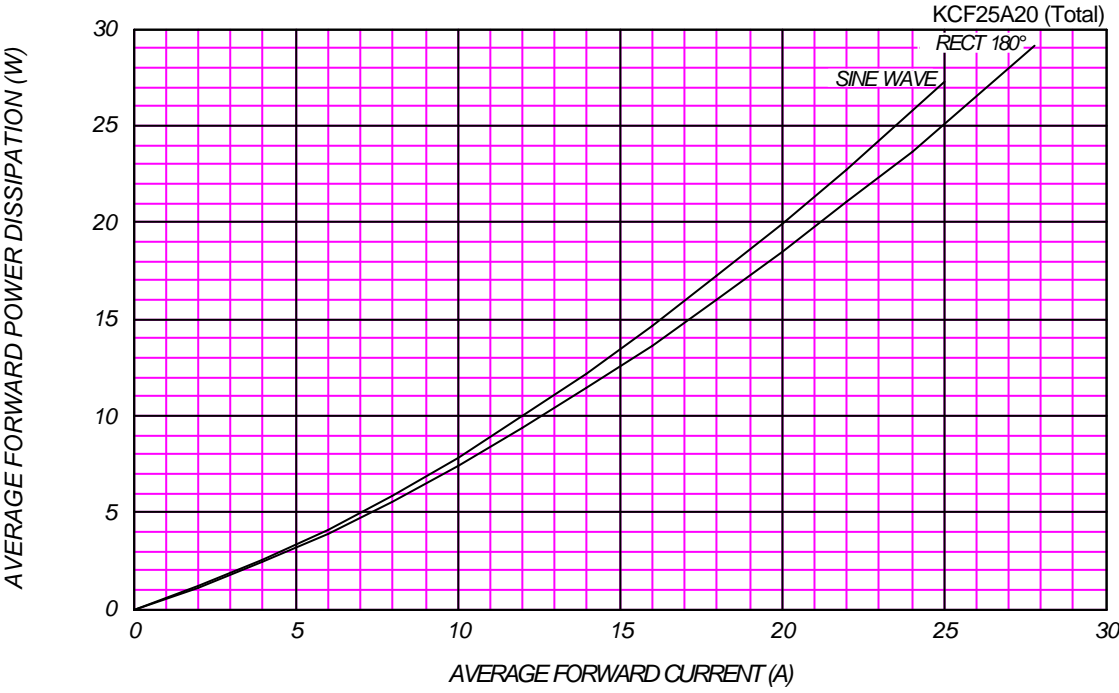
Center Tap

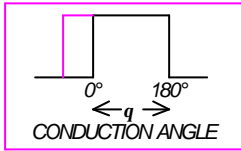


FORWARD CURRENT VS. VOLTAGE

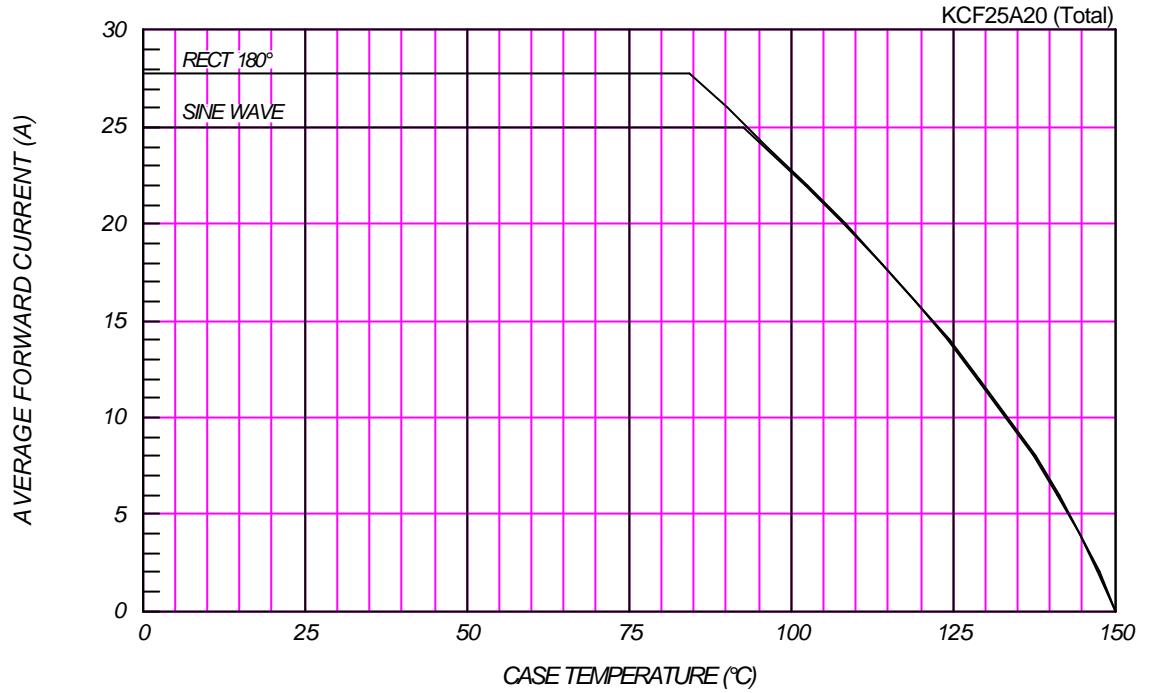


AVERAGE FORWARD POWER DISSIPATION





AVERAGE FORWARD CURRENT VS. CASE TEMPERATURE



SURGE CURRENT RATINGS

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

