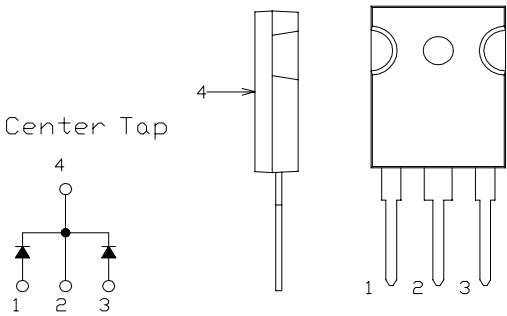


FRD Type : KCF16A20

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 600 Volts Types Available



Maximum Ratings

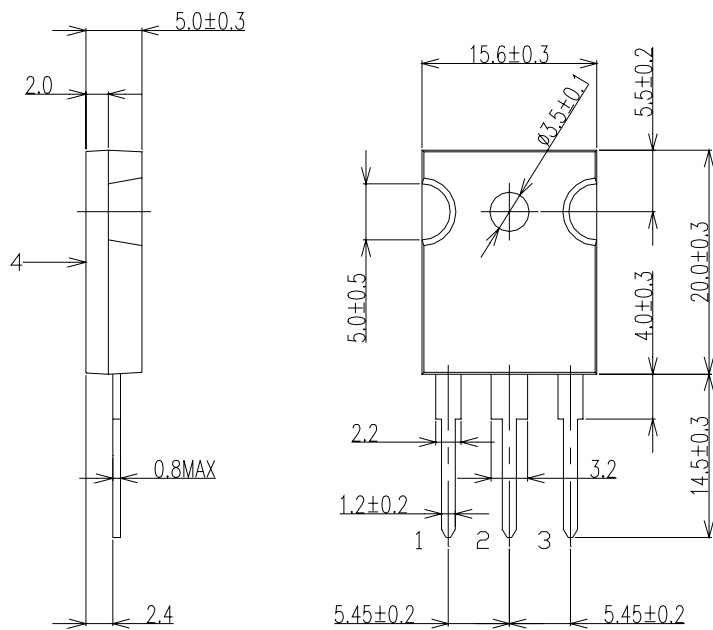
Approx Net Weight:5.55g

Rating	Symbol	KCF16A20			Unit
Repetitive Peak Reverse Voltage	V _{RRM}	200			V
Non-repetitive Peak Reverse Voltage	V _{RSM}	220			V
Average Rectified Output Current	I _O	16	Tc=113℃	50 Hz,Full Sine Wave Resistive Load	A
RMS Forward Current	I _{F(RMS)}	18			A
Surge Forward Current	I _{FSM}	120	50 Hz Full Sine Wave,1cycle Non-repetitive		A
Operating JunctionTemperature Range	T _{jw}	- 40 to + 150			℃
Storage Temperature Range	T _{stg}	- 40 to + 150			℃
Mounting torque		0.5	Recommended value		N•m

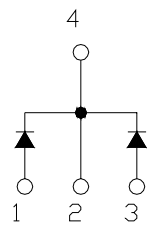
Electrical • Thermal Characteristics

Characteristics	Symbol	Conditions	Min.	Typ.	Max.	Unit
Peak Reverse Current	I_{RM}	$T_j=25^{\circ}C, V_{RM}=V_{RRM}$ per Arm	-	-	25	μA
Peak Forward Voltage	V_{FM}	$T_j=25^{\circ}C, I_{FM}=8A$ per Arm	-	-	0.98	V
Reverse Recovery Time	t_{rr}	$I_{FM}= 8 A,$ $-di/dt= 50 A/\mu s, T_a= 25^{\circ}C$	-	-	35	ns
Thermal Resistance	$R_{th(j-c)}$	Junction to Case	-	-	2	$^{\circ}C/W$

KCF16A20 OUTLINE DRAWING (Dimensions in mm)



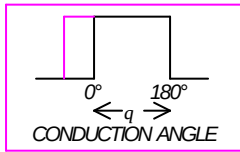
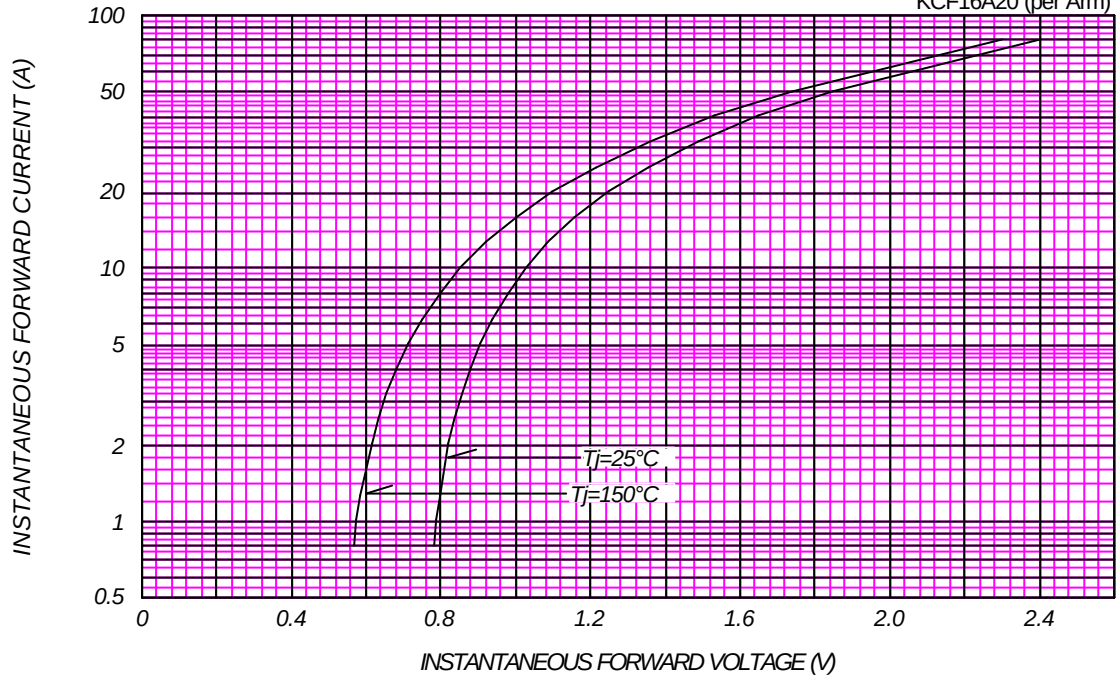
Center Tap



FORWARD CURRENT VS. VOLTAGE

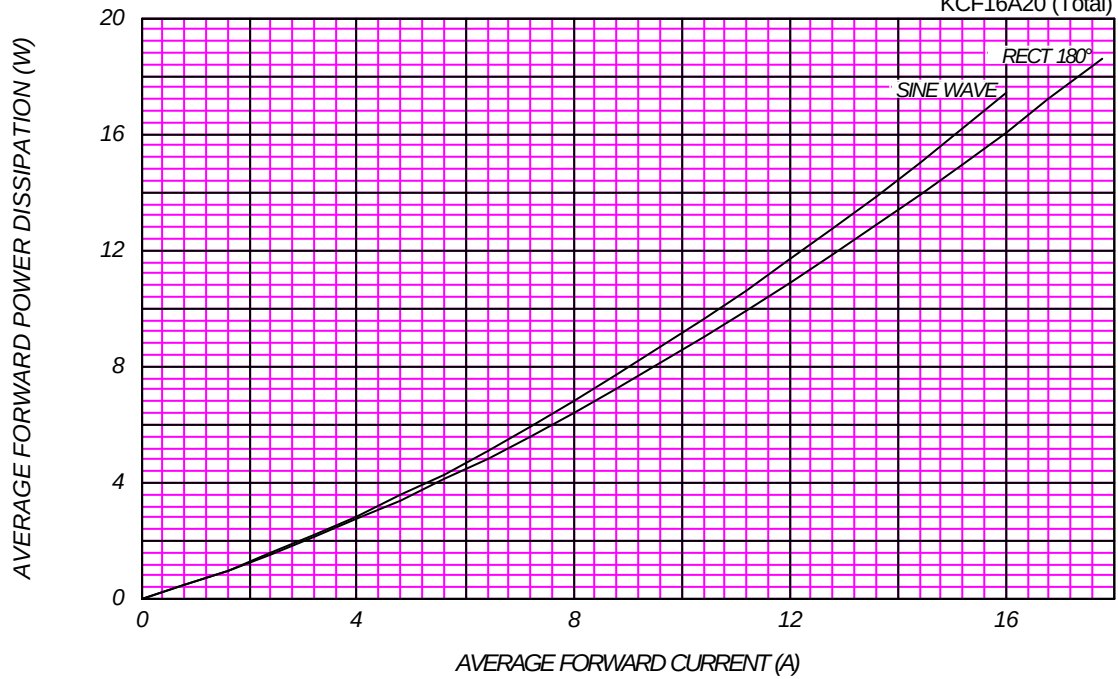
10ms Sine Wave Single Pulse

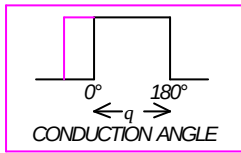
KCF16A20 (per Arm)



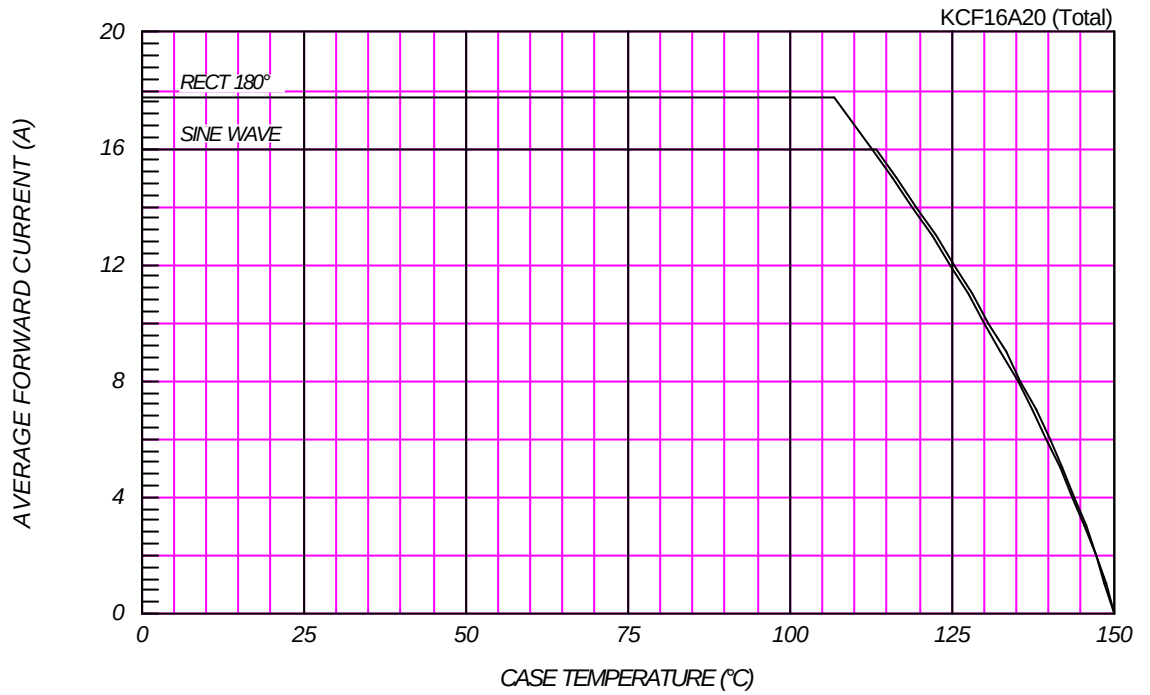
AVERAGE FORWARD POWER DISSIPATION

KCF16A20 (Total)





AVERAGE FORWARD CURRENT VS. CASE TEMPERATURE



SURGE CURRENT RATINGS

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

