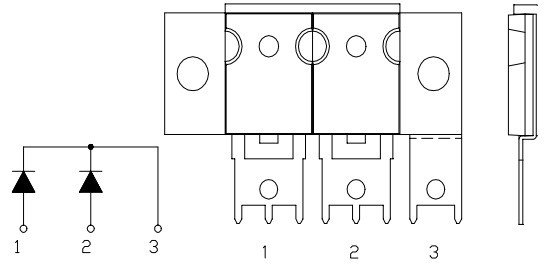


# FRD Type : KCF60A40E

## OUTLINE DRAWING

### FEATURES

- \* Similar to TO-247AC (TO-3P) x 2 Case
- \* Dual Diodes – Cathode Common
- \* Ultra – Fast Recovery
- \* Low Forward Voltage Drop
- \* High Surge Capability
- \* 200 Volts thru 600 Volts Types Available



### Maximum Ratings

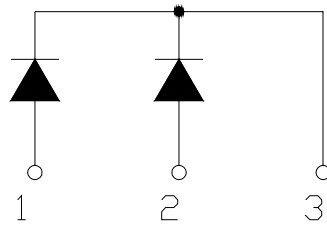
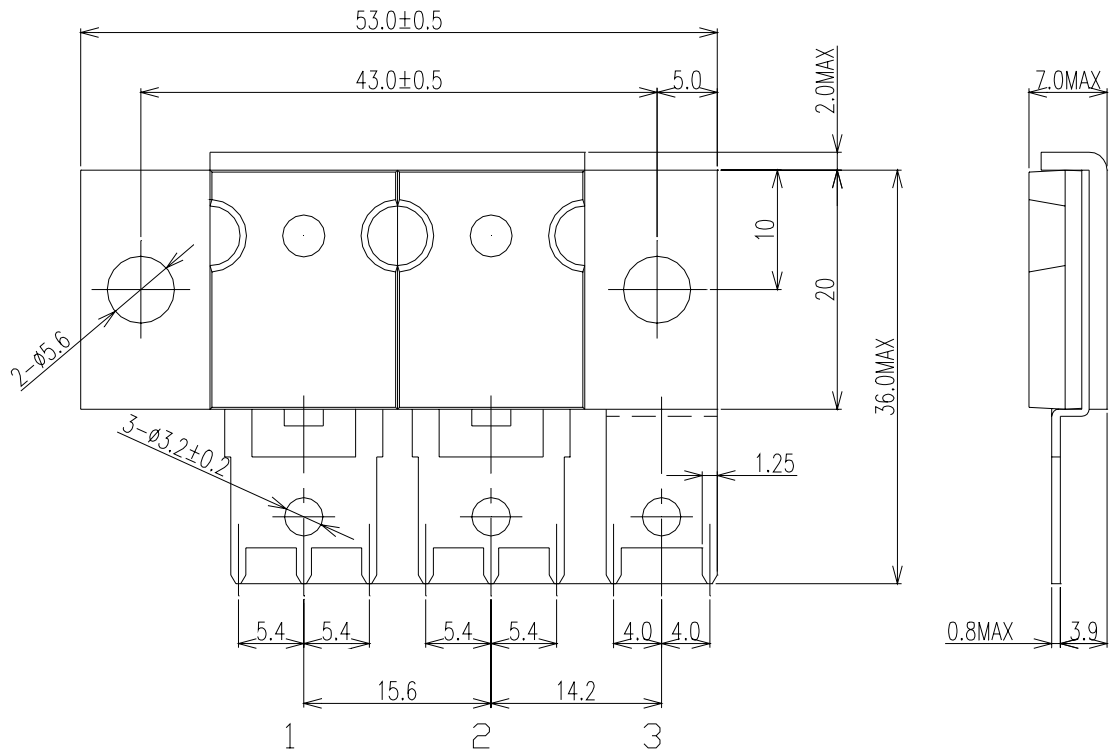
Approx Net Weight:30g

Rating		Symbol	KCF60A40E		Unit
Repetitive Peak Reverse Voltage		$V_{RRM}$	400		V
Average Rectified Output Current		$I_O$	60	$T_C=77^\circ\text{C}$ 50 Hz, Full Sine Wave Resistive Load	A
RMS Forward Current		$I_{F(RMS)}$	66.6		A
Surge Forward Current		$I_{FSM}$	400	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	Anode Cathode Terminal	$F_{tor}$	0.5	Recommended value	N·m
	Cathode Base		2.4		

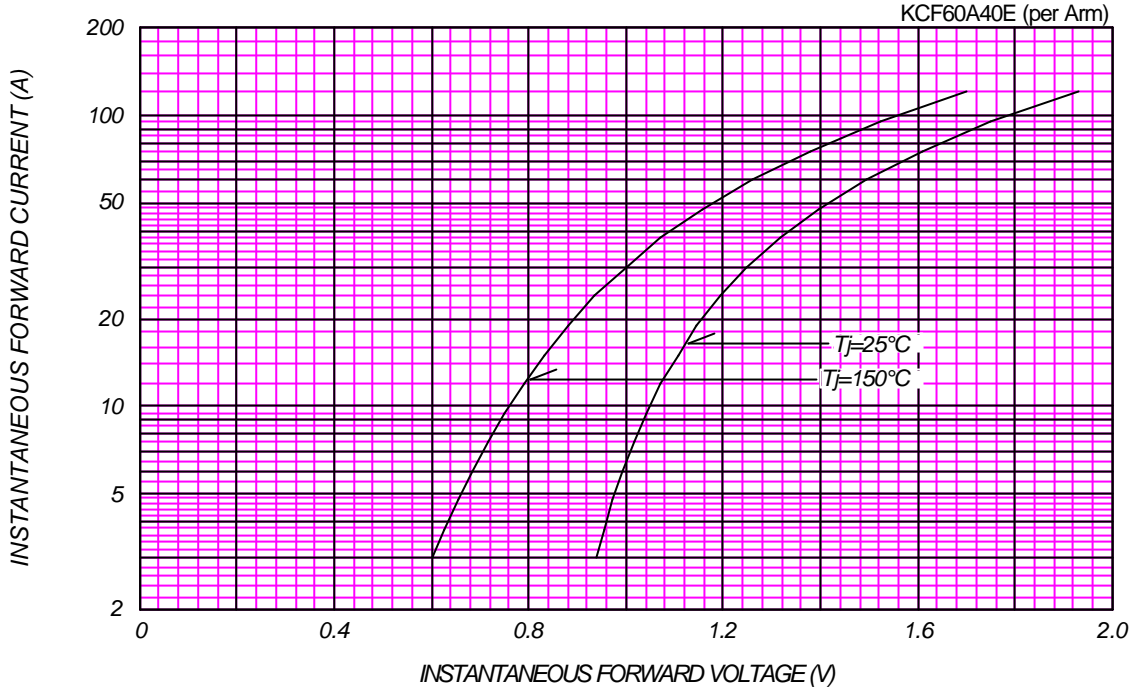
### Electrical • Thermal Characteristics

Characteristics	Symbol	Conditions	Min.	Typ.	Max.	Unit
Peak Reverse Current	$I_{RM}$	$T_j=25^\circ\text{C}, V_{RM}=V_{RRM}$ per Arm	-	-	50	$\mu\text{A}$
Peak Forward Voltage	$V_{FM}$	$T_j=25^\circ\text{C}, I_{FM}=30\text{A}$ per Arm	-	-	1.25	V
Reverse Recovery Time	$t_{rr}$	$I_{FM}=10\text{A}$ , $-di/dt=50\text{A}/\mu\text{s}$ , $T_a=25^\circ\text{C}$	-	-	60	ns
Thermal Resistance	$R_{th(j-c)}$	Junction to Case	-	-	0.85	$^\circ\text{C}/\text{W}$

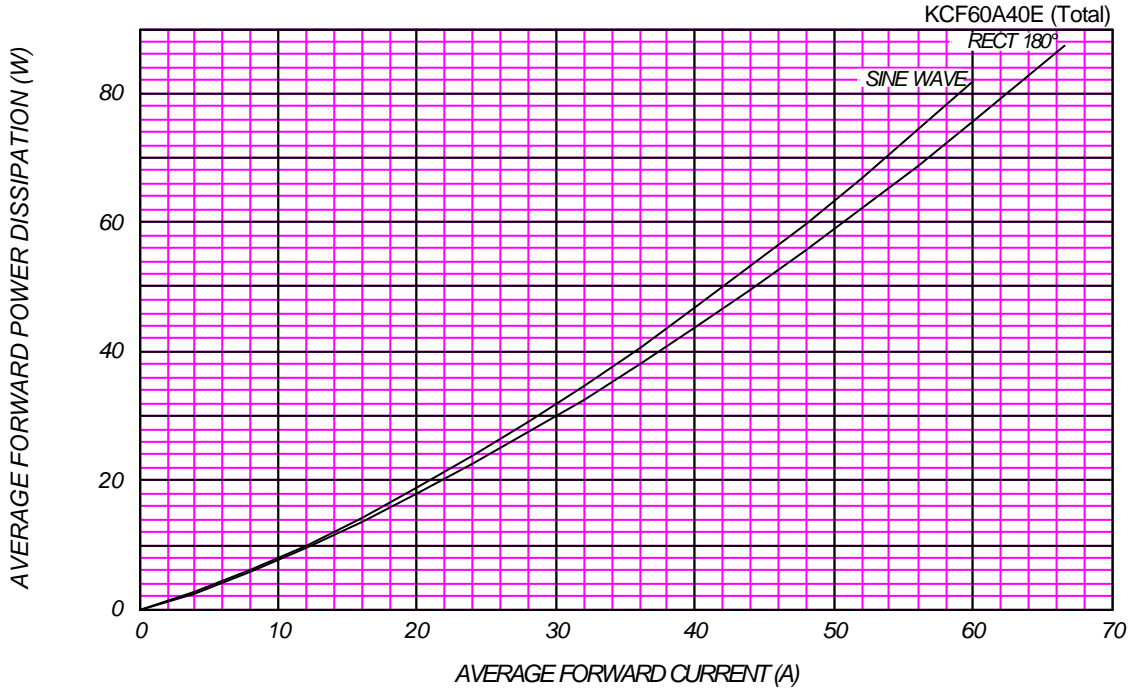
KCF60A40E OUTLINE DRAWING (Dimensions in mm)



FORWARD CURRENT VS. VOLTAGE

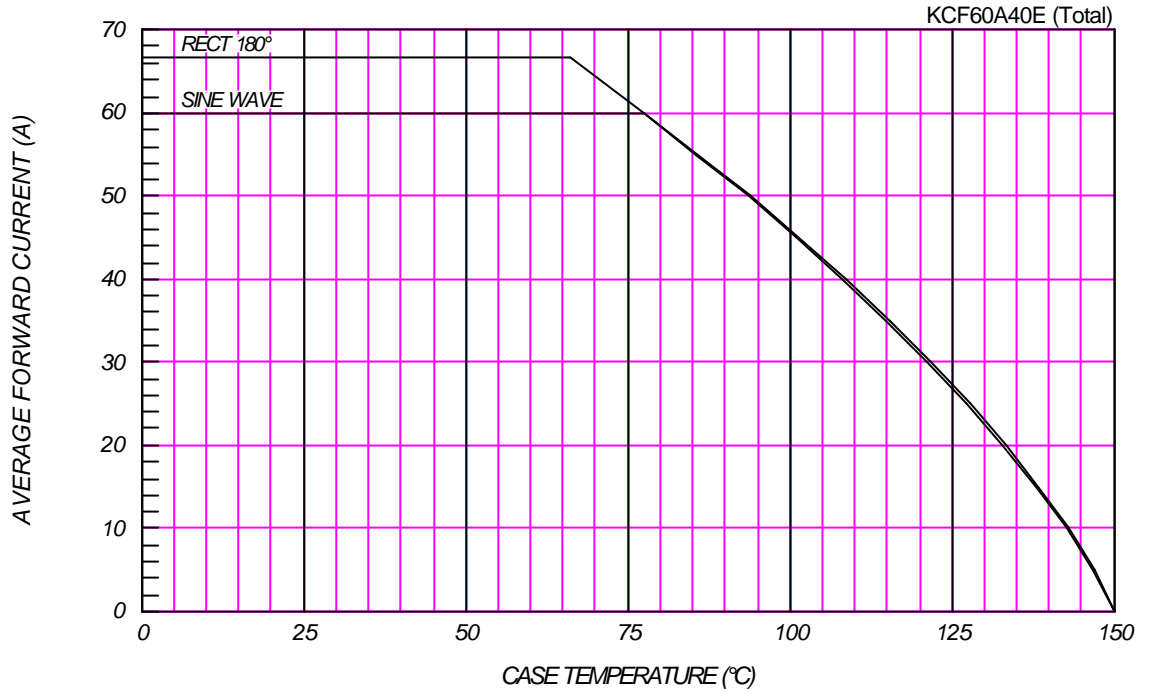


AVERAGE FORWARD POWER DISSIPATION





### AVERAGE FORWARD CURRENT VS. CASE TEMPERATURE



### SURGE CURRENT RATINGS

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

