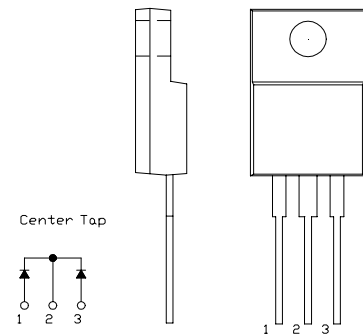


# FRD Type : FCF06A60

## OUTLINE DRAWING

### FEATURES

- \* Fully Molded Isolation
- \* Dual Diodes – Cathode Common
- \* Ultra – Fast Recovery
- \* Low Forward Voltage Drop
- \* High Surge Capability
- \* 200 Volts thru 600 Volts Types Available



### Maximum Ratings

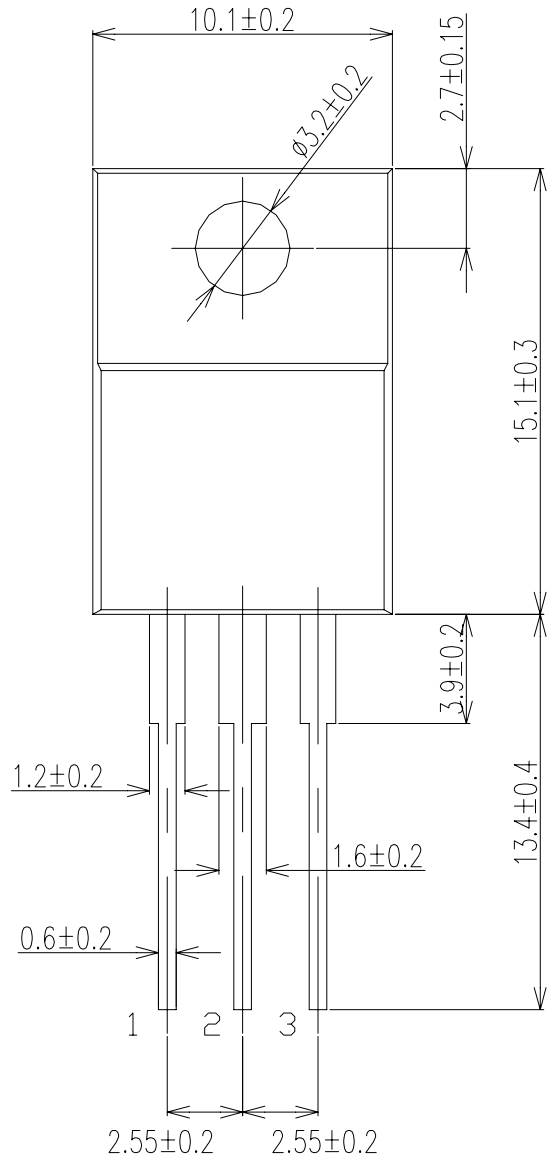
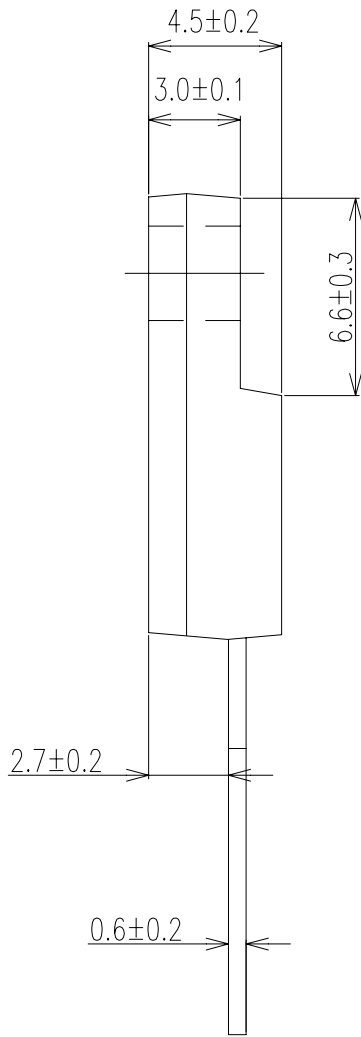
Approx Net Weight:1.75g

Rating	Symbol	FCF06A60		Unit
Repetitive Peak Reverse Voltage	$V_{RRM}$	600		V
Average Rectified Output Current	$I_O$	6	$T_c=110^{\circ}C$ 50 Hz, Full Sine Wave Resistive Load	A
RMS Forward Current	$I_{F(RMS)}$	6.7		A
Surge Forward Current	$I_{FSM}$	60	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

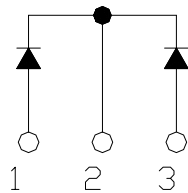
### Electrical • Thermal Characteristics

Characteristics	Symbol	Conditions	Min.	Typ.	Max.	Unit
Peak Reverse Current	$I_{RM}$	$T_j=25^{\circ}C, V_{RM}=V_{RRM}$ per Arm	-	-	20	$\mu A$
Peak Forward Voltage	$V_{FM}$	$T_j=25^{\circ}C, I_{FM}=3A$ per Arm	-	-	1.7	V
Reverse Recovery Time	$t_{rr}$	$I_{FM}= 3 A,$ $-di/dt= 50 A/\mu s, T_a= 25^{\circ}C$	-	-	30	ns
Thermal Resistance	$R_{th(j-c)}$	Junction to Case	-	-	4	$^{\circ}C/W$
	$R_{th(c-f)}$	Case to Fin	-	-	1.5	

FCF\_A\_ OUTLINE DRAWING (Dimensions in mm)



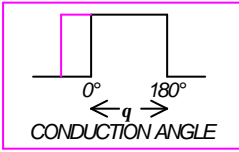
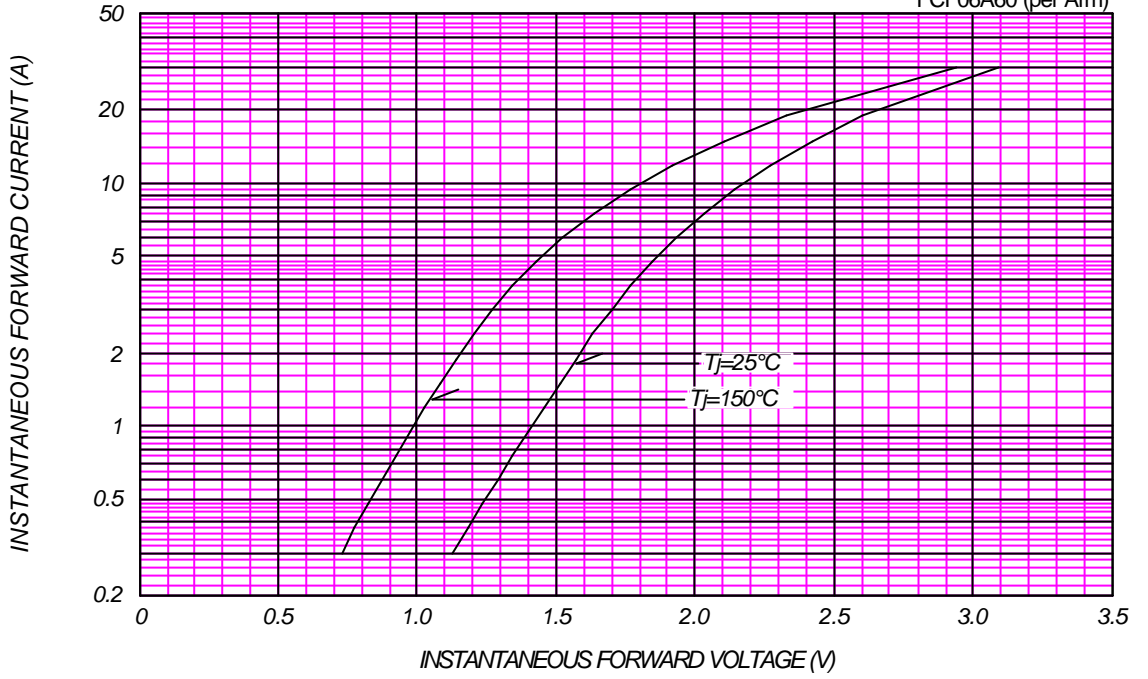
Center Tap



### FORWARD CURRENT VS. VOLTAGE

10ms Sine Wave Single Pulse

FCF06A60 (per Arm)



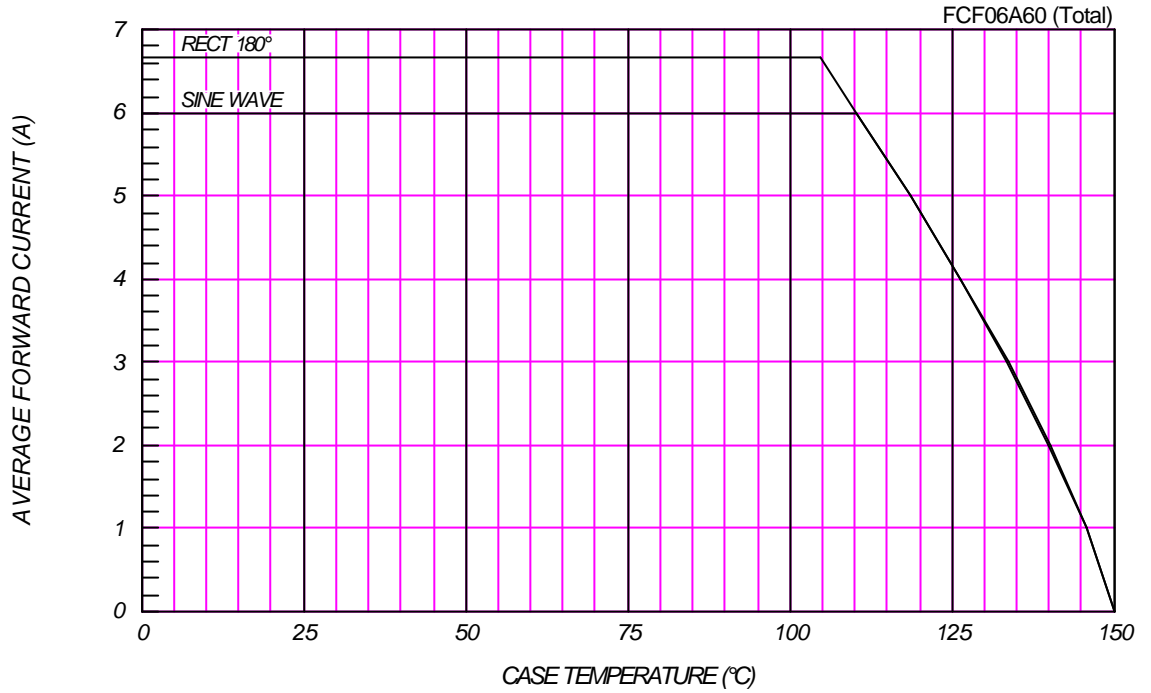
### AVERAGE FORWARD POWER DISSIPATION

FCF06A60 (Total)





AVERAGE FORWARD CURRENT VS. CASE TEMPERATURE



SURGE CURRENT RATINGS

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

