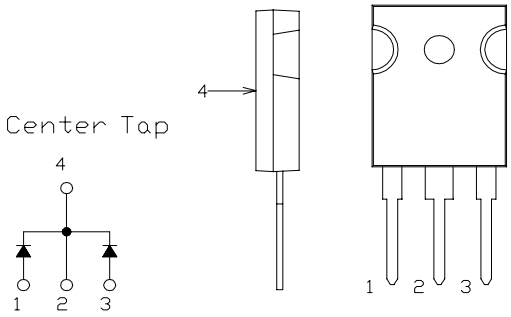
Nihon Inter Electronics Corporation

FRD Type : KCF16A40

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

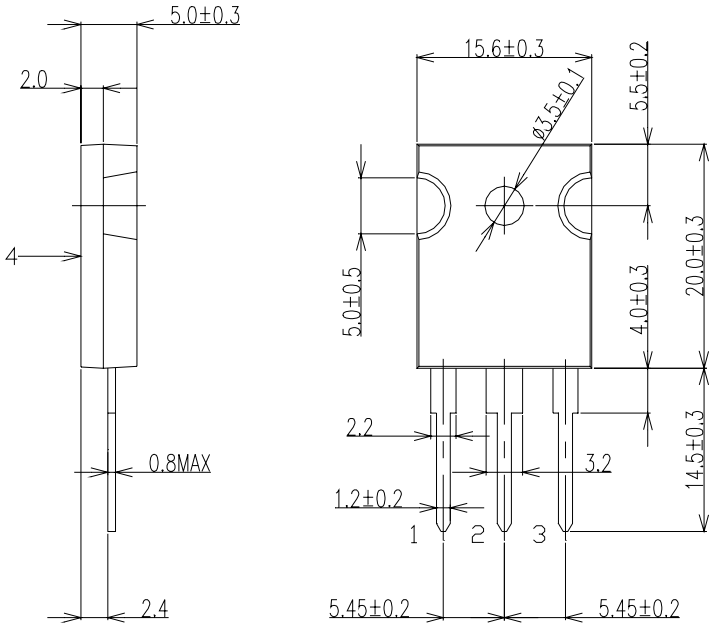
Approx Net Weight:5.55g

Rating	Symbol	KCF16A40			Unit
Repetitive Peak Reverse Voltage	V_{RRM}	400			V
Non-repetitive Peak Reverse Voltage	V_{RSM}	440			V
Average Rectified Output Current	I_O	16	Tc=109℃	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	Tjw	- 40 to + 150			℃
Storage Temperature Range	Tstg	- 40 to + 150			℃
Mounting torque		0.5	Recommended value		N･m

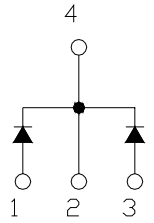
Electrical • Thermal Characteristics

Characteristics	Symbol	Conditions	Min.	Typ.	Max.	Unit
Peak Reverse Current	I_{RM}	Tj=25℃,V_{RM}=V_{RRM} per Arm	-	-	30	μA
Peak Forward Voltage	V_{FM}	Tj=25℃, I_{FM}=8A per Arm	-	-	1.25	V
Reverse Recovery Time	trr	I_{FM}= 8 A, -di/dt= 50 A/μs, Ta= 25℃	-	-	45	ns
Thermal Resistance	Rth(j-c)	Junction to Case	-	-	2	℃/W

KCF16A40 OUTLINE DRAWING (Dimensions in mm)

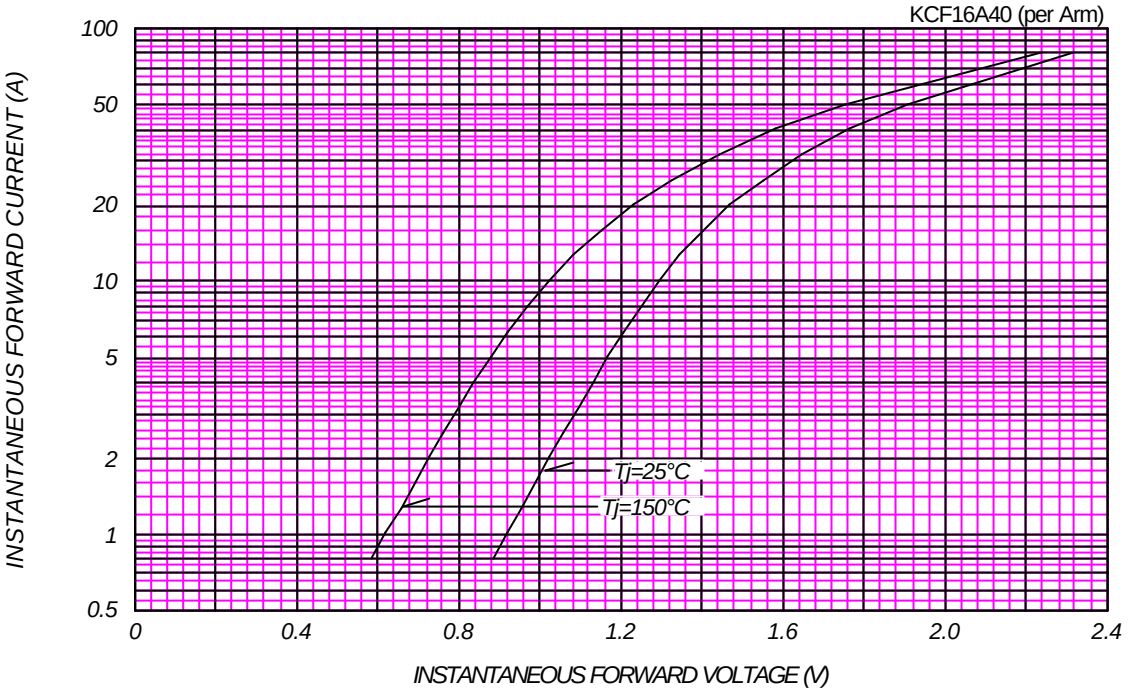


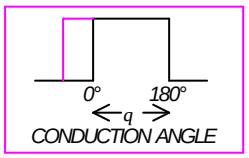
Center Tap



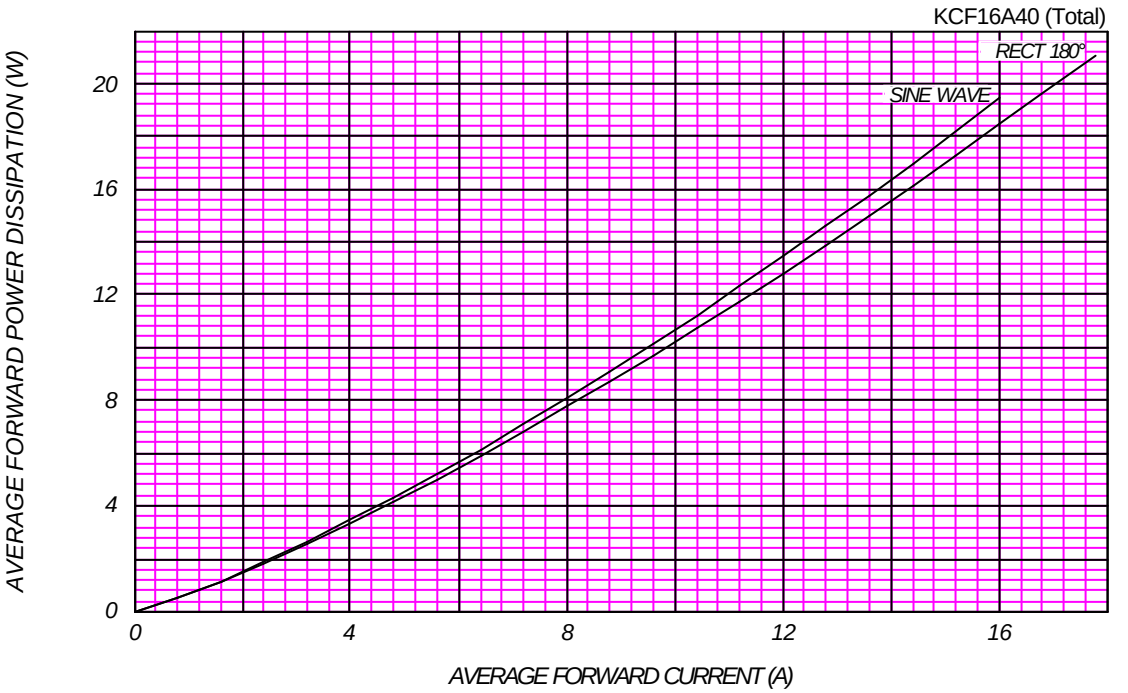
FORWARD CURRENT VS. VOLTAGE

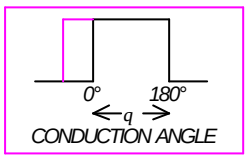
10ms Sine Wave Single Pulse



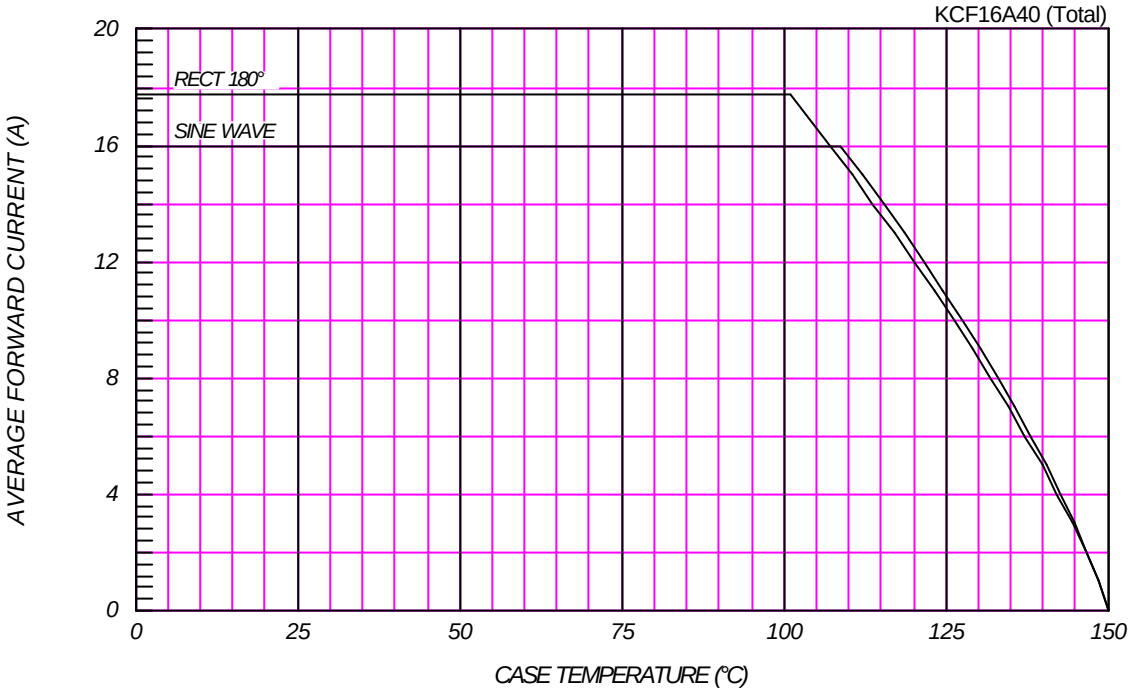


AVERAGE FORWARD POWER DISSIPATION





AVERAGE FORWARD CURRENT VS. CASE TEMPERATURE



SURGE CURRENT RATINGS

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

