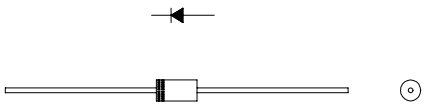
Nihon Inter Electronics Corporation

1.5A 400V 160ns

FRD Type:15KRA40

OUTLINE DRAWING



FEATURES

* Miniature Size
* Super Fast Recovery
* Low Forward Voltage Drop
* Low Power Loss, High Efficiency
* 100volts trough 600volts Types Available
* High Surge Capability
* 52mm Inside Tape Spacing Packing Available

Maximum Ratings

Apporox Net Weight:0.38g

Rating	Symbol	15KRA40			Unit
Repetitive Peak Reverse Voltage	V_{RRM}	400			V
Average Rectified Output Current	I_O	1.5	Ta=35℃ ∗1	50Hz Half Sine Wave Resistive Load	A
		1.1	Ta=32℃ ∗2		
RMS Forward Current	$I_{F(RMS)}$	2.35			A
Surge Forward Current	I_{FSM}	50	50Hz Half Sine Wave,1cycle, Non-repetitive		A
Operating JunctionTemperature Range	Tjw	- 40 to + 150			℃
Storage Temperature Range	Tstg	- 40 to + 150			℃

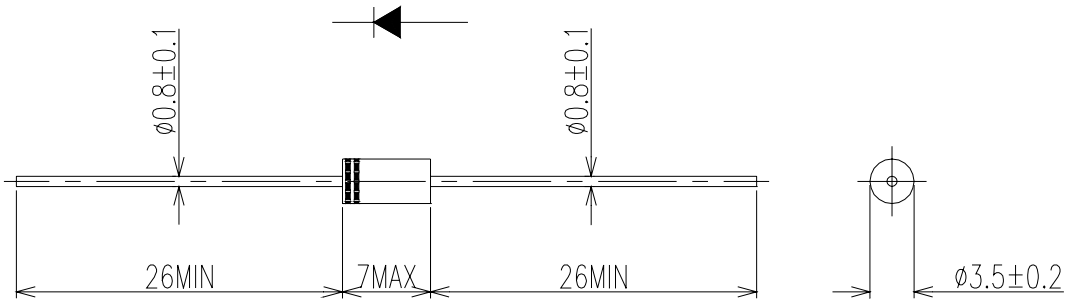
Electrical/Thermal • Characteristics

Characteristics	Symbol	Conditions		Min.	Typ.	Max.	Unit
Peak Reverse Current	I_{RM}	Tj= 25℃, V_{RM}= V_{RRM}		-	-	10	μA
Peak Forward Voltage	V_{FM}	Tj= 25℃, I_{FM}= 1.5 A		-	-	1.1	V
Reverse Recovery Time	trr	Ta= 25℃, I_{FM}=1.5 A –di/dt=50A/μs				160	ns
Thermal Resistance (Junction to Ambient)	Rth(j-a)	Junction to Ambient	∗1:Without Fin	-	-	70	℃/W
			∗2:P.C.Board mounted			105	

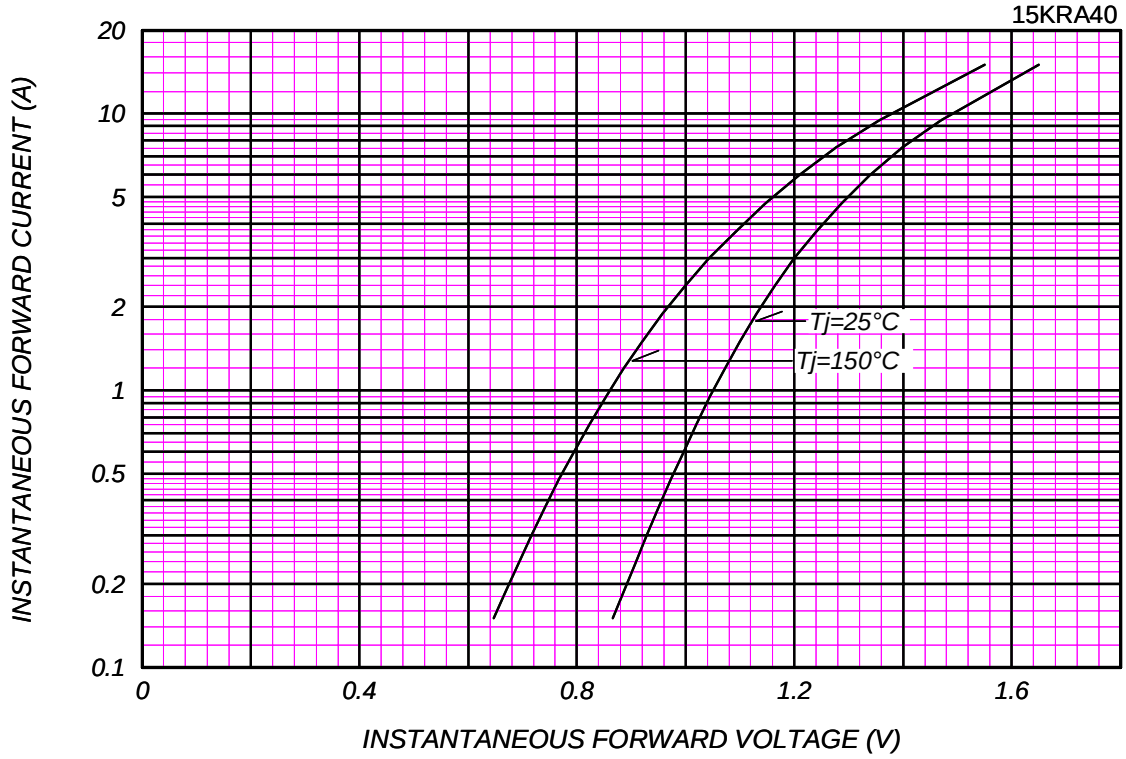
∗1 : P.C.Board mounted (L=8mm, Print Lands=15x15, Both Sides)

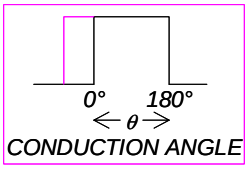
∗2 : Without Fin or P.C. Board mounted

15KRA_ OUTLINE DRAWING (Dimensions in mm)

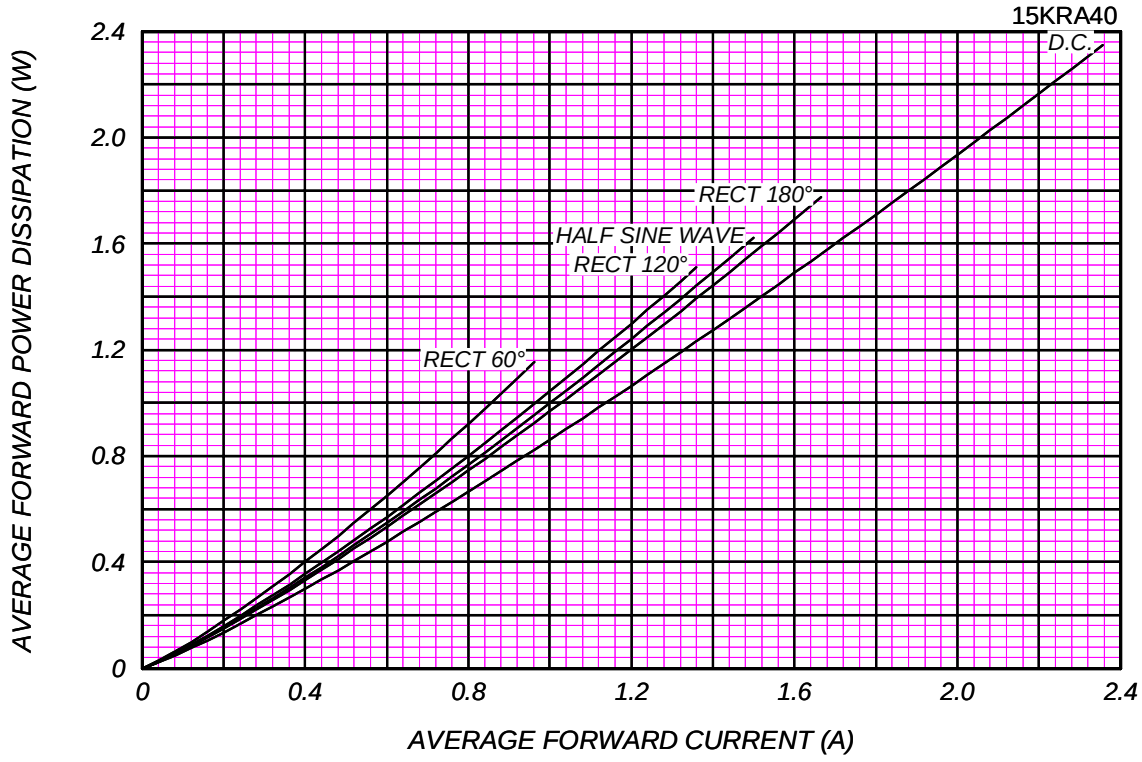


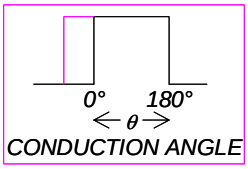
FORWARD CURRENT VS. VOLTAGE





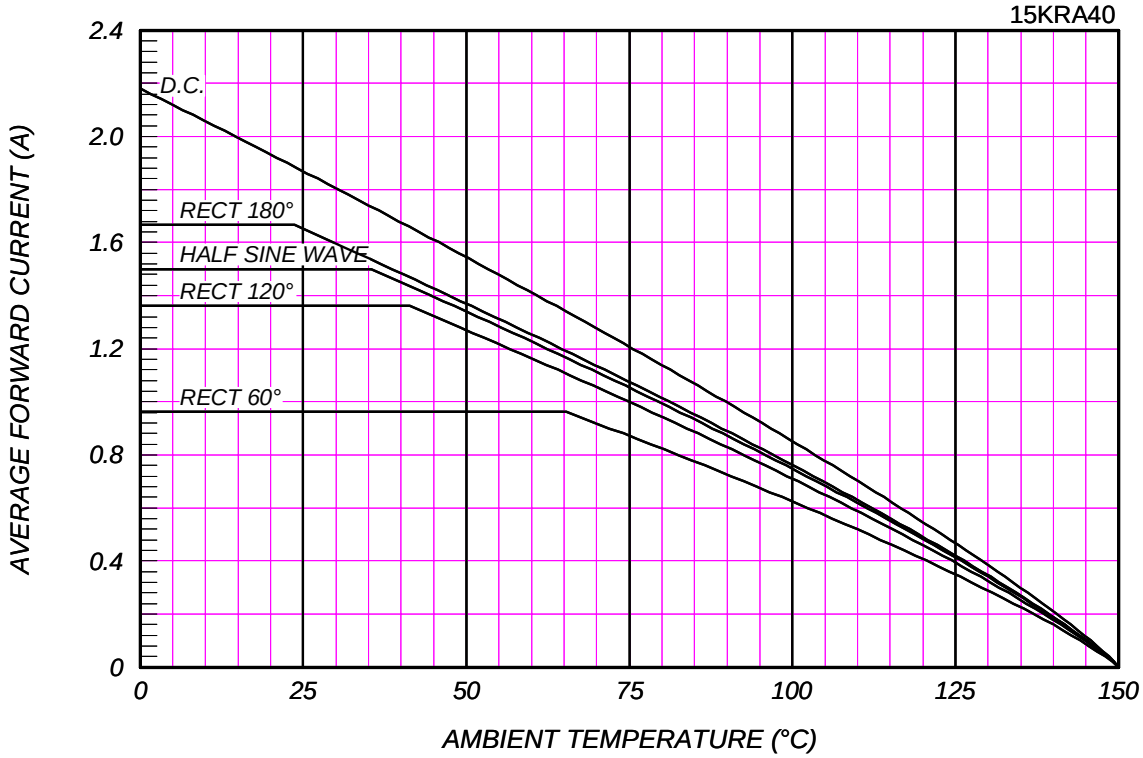
AVERAGE FORWARD POWER DISSIPATION

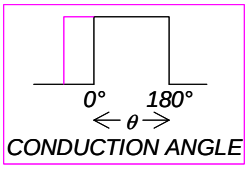




AVERAGE FORWARD CURRENT VS. AMBIENT TEMPERATURE

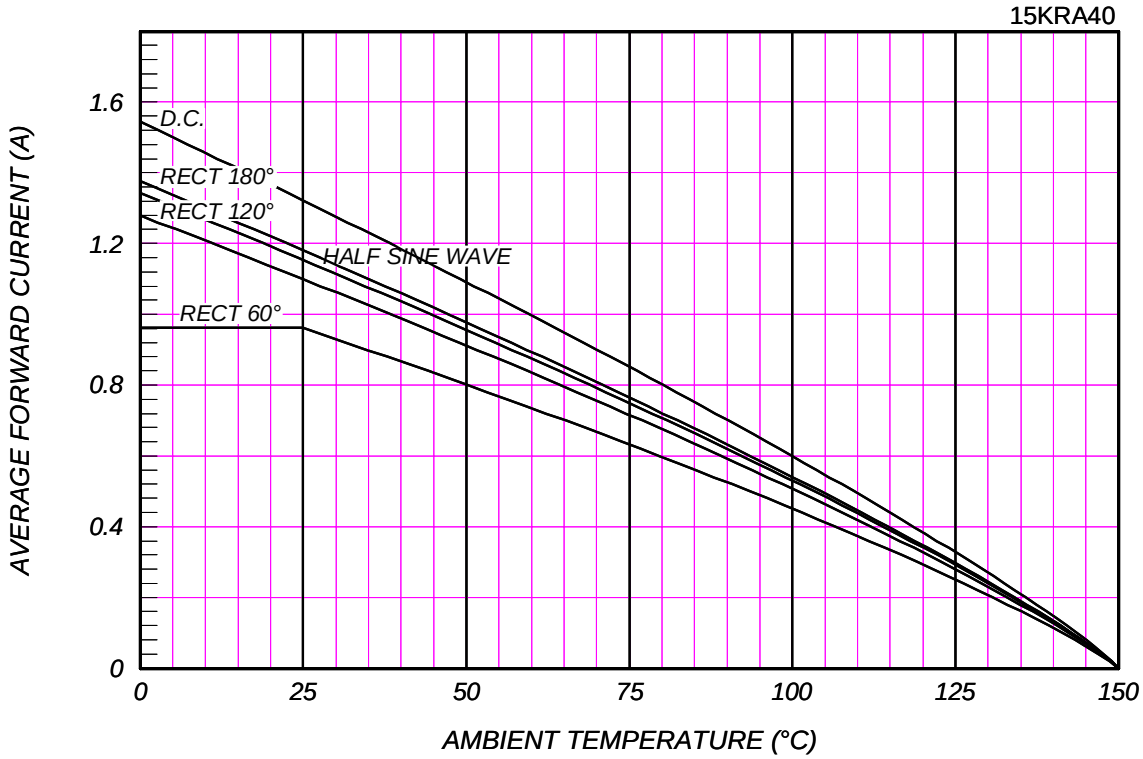
P.C. Board mounted (L=8mm,Print Land=15×15mm,Both Sides)





AVERAGE FORWARD CURRENT VS. AMBIENT TEMPERATURE

Without Fin or P.C. Board



SURGE CURRENT RATINGS

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