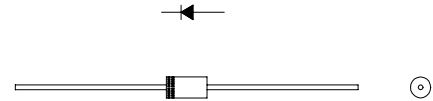


1.5A 600V 160ns
FRD Type:15KRA60

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	15KRA60			Unit
Repetitive Peak Reverse Voltage	V_{RRM}	600			V
Average Rectified Output Current	I_O	1.5	Ta=35°C *1	50Hz Half Sine	A
		1.1	Ta=32°C *2	Wave Resistive Load	
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	T_{jw}	- 40 to + 150			°C
Storage Temperature Range	T_{stg}	- 40 to + 150			°C

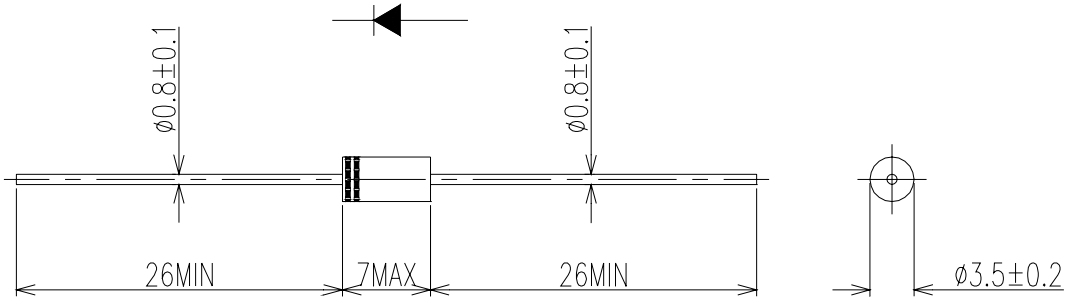
Electrical/Thermal • Characteristics

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

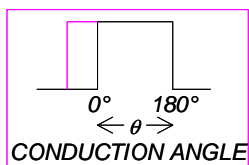
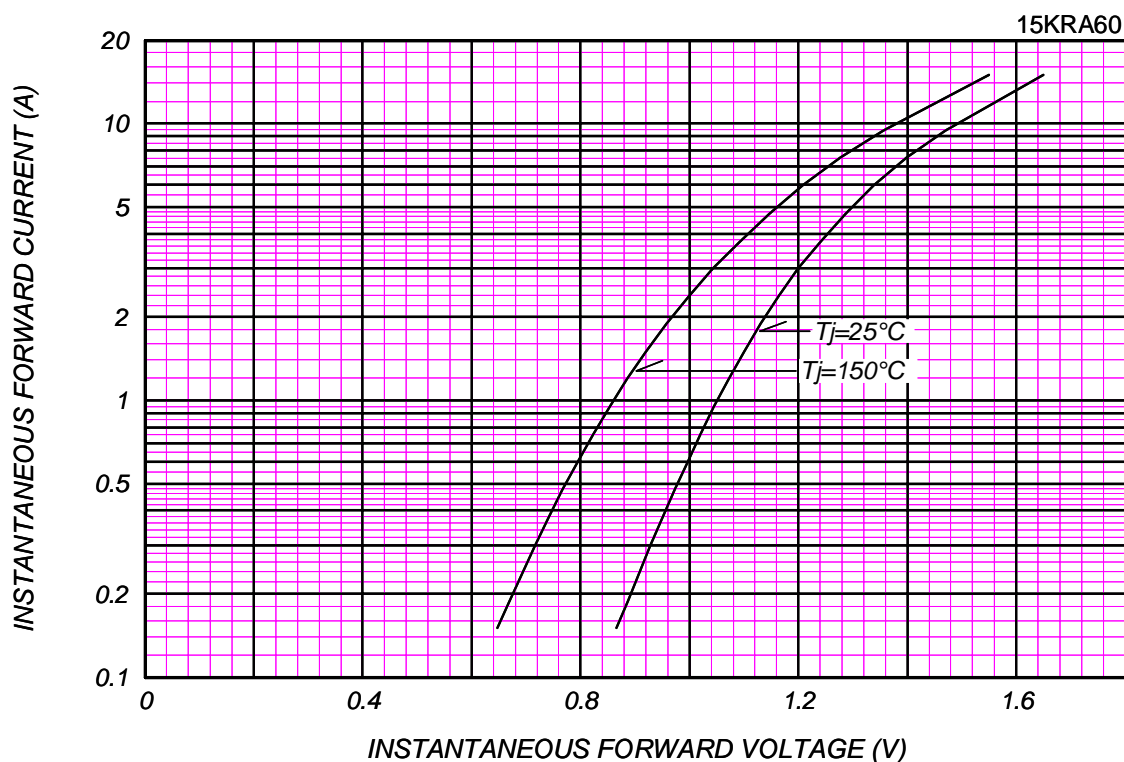
*1 : P.C.Board mounted (L=8mm, Print Lands=15x15, Both Sides)

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

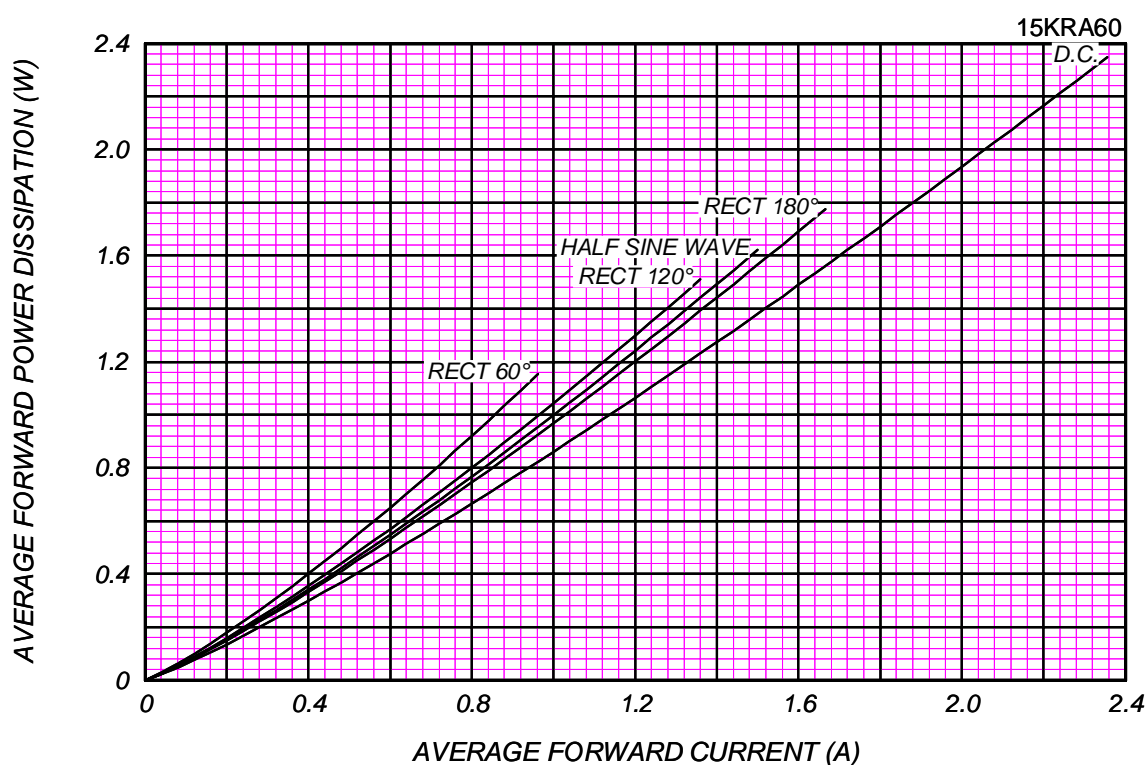
15KRA_ OUTLINE DRAWING (Dimensions in mm)

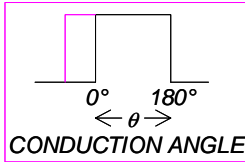


FORWARD CURRENT VS. VOLTAGE



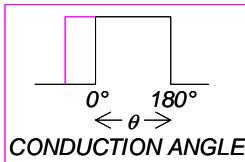
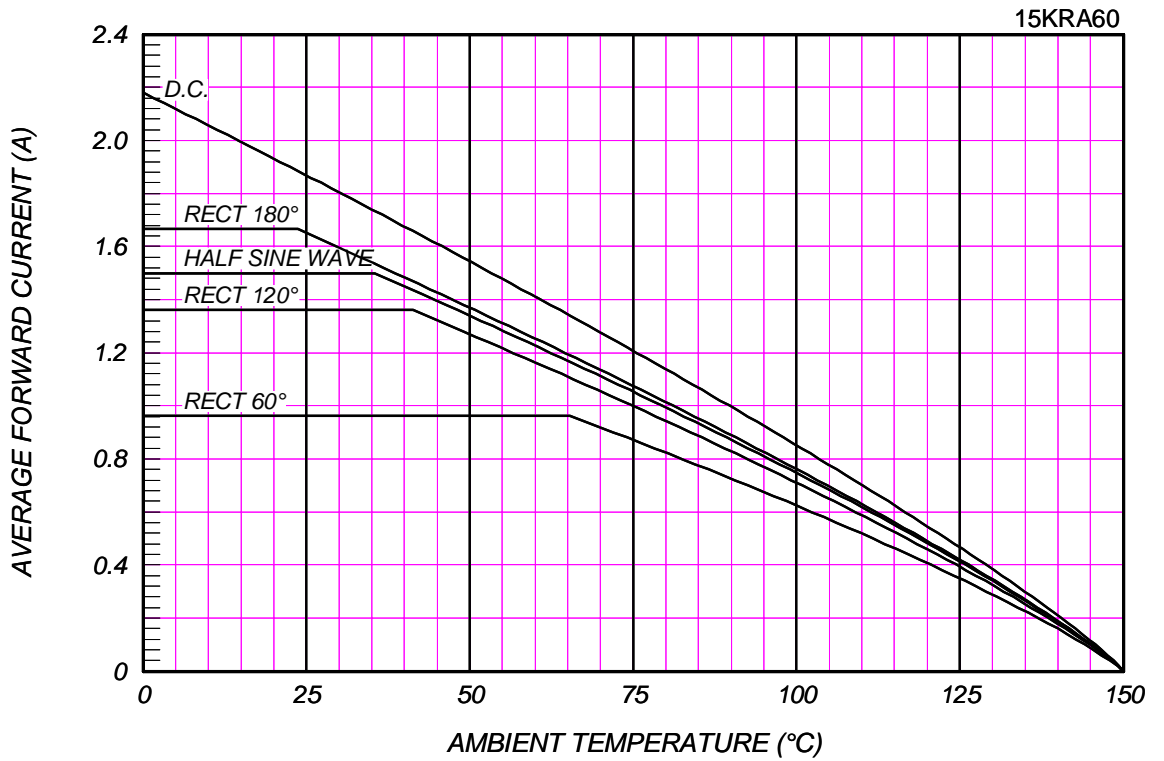
AVERAGE FORWARD POWER DISSIPATION





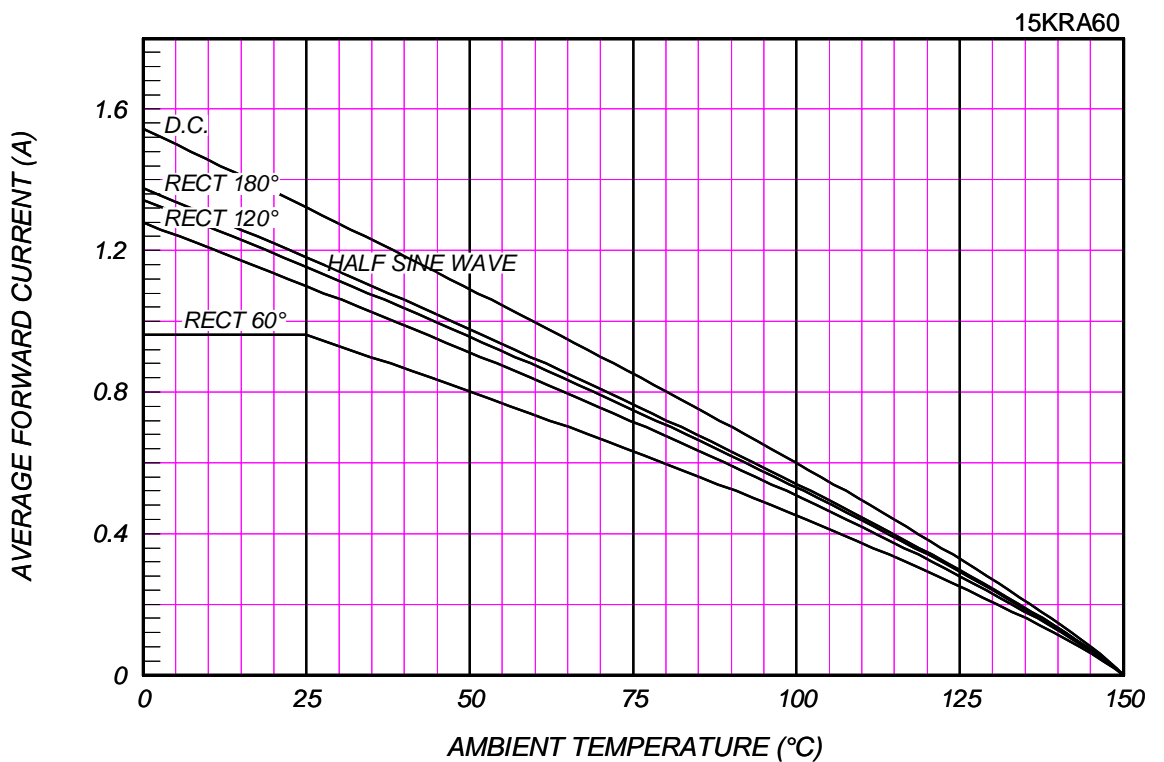
AVERAGE FORWARD CURRENT VS. AMBIENT TEMPERATURE

P.C. Board mounted (L=8mm,Print Land=15x15mm,Both Sides)



AVERAGE FORWARD CURRENT VS. AMBIENT TEMPERATURE

Without Fin or P.C. Board



SURGE CURRENT RATINGS

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

15KRA60

