

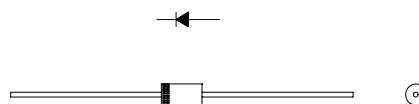
1.5A 200V 90ns

FRD Type:15KRA20

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 | 15KRA20 | | | Unit |
|-------------------------------------|--------------|---------------|-----------------------------------------------|---------------------|------|
| Repetitive Peak Reverse Voltage | V_{RRM} | 200 | | | V |
| Average Rectified Output Current | I_O | 1.5 | Ta=46°C *1 | 50Hz Half Sine | A |
| | | 1.2 | Ta=31°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 |

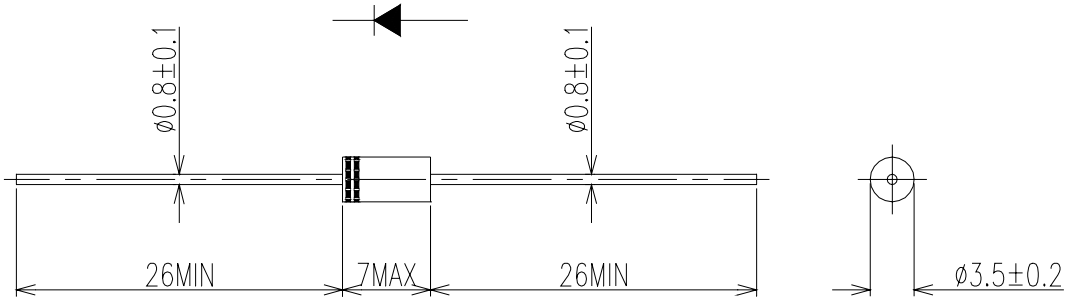
Electrical/Thermal • Characteristics

| 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} | $T_j = 25^\circ\text{C}, I_{FM} = 1.5 \text{ A}$ | - | - | 1.03 | V | |
| Reverse Recovery Time | trr | Ta= 25°C, I _{FM} =1.5 A -di/dt=50A/μs | | | 90 | ns | |
| Thermal Resistance (Junction to Ambient) | Rth(j-a) | Junction to Ambient | *1:Without Fin | - | - | 70 | °C/W |
| | | | *2:P.C.Board mounted | | | 105 | |

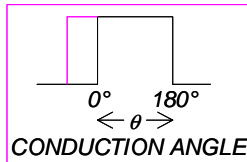
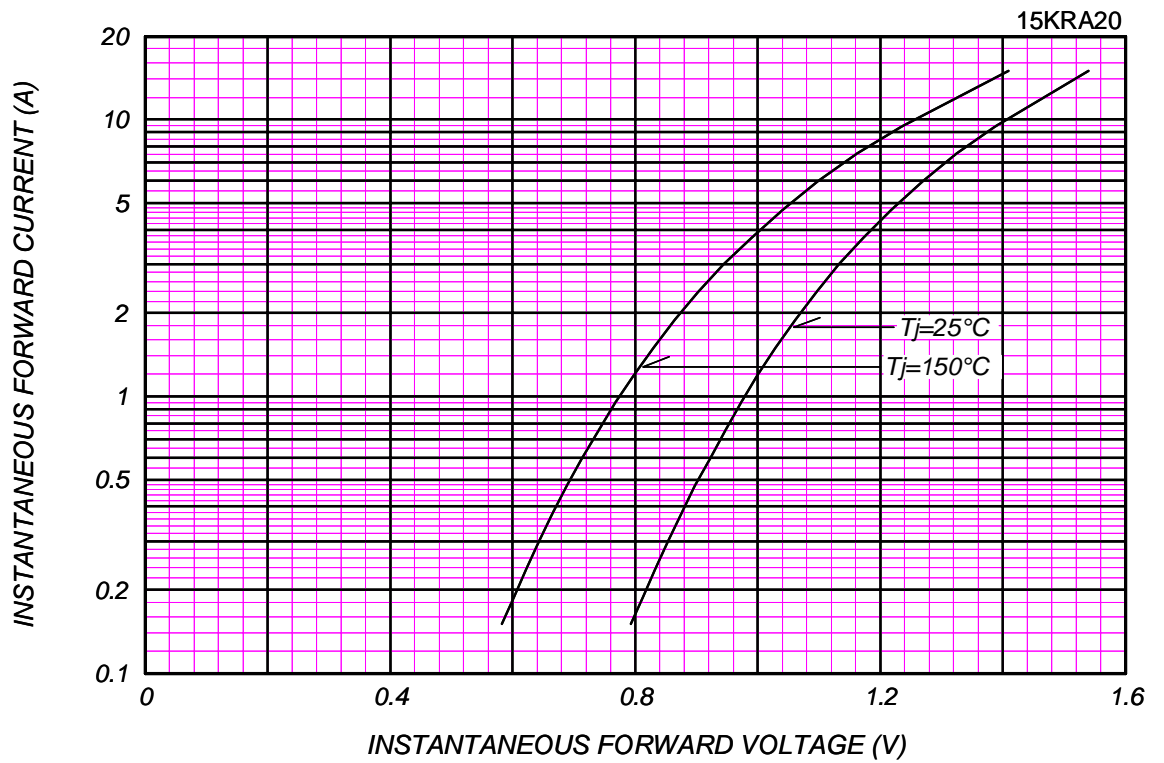
*1 : P.C.Board mounted (L=8mm, Print Lands=15x15, Both Sides)

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

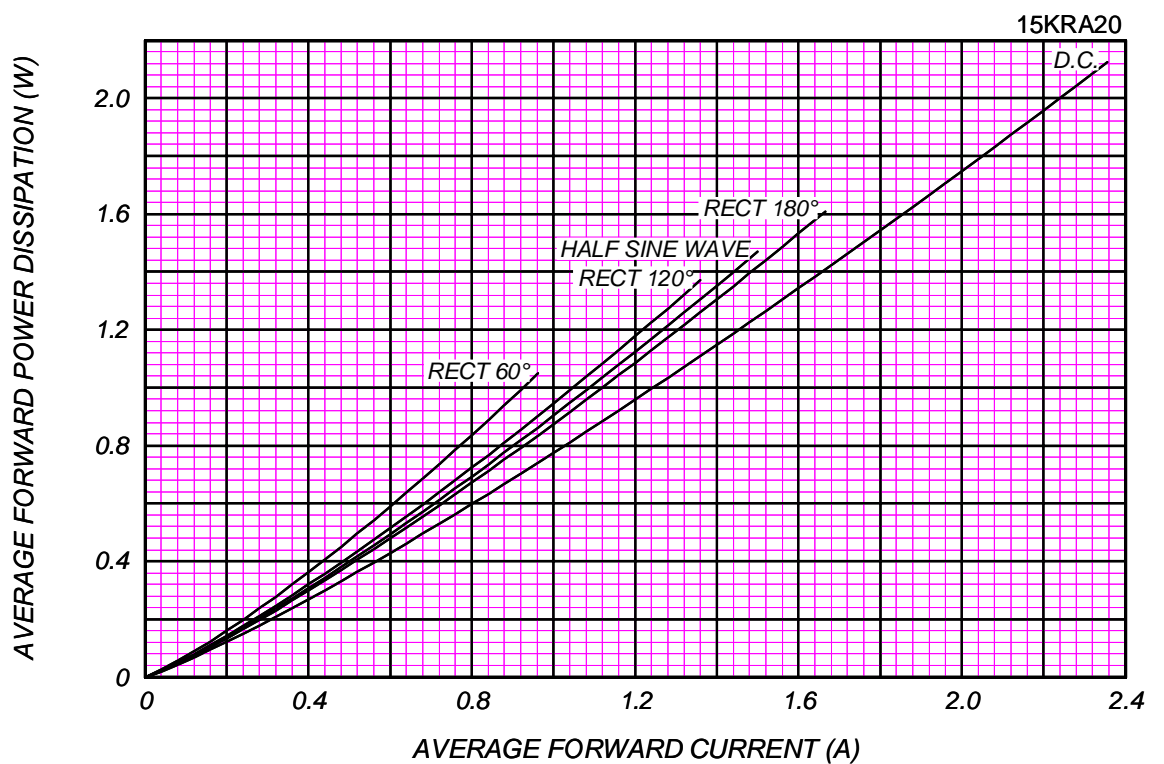
15KRA_ OUTLINE DRAWING (Dimensions in mm)

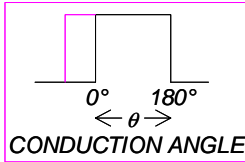


FORWARD CURRENT VS. VOLTAGE



AVERAGE FORWARD POWER DISSIPATION

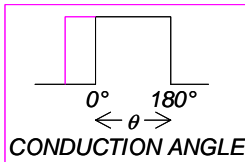
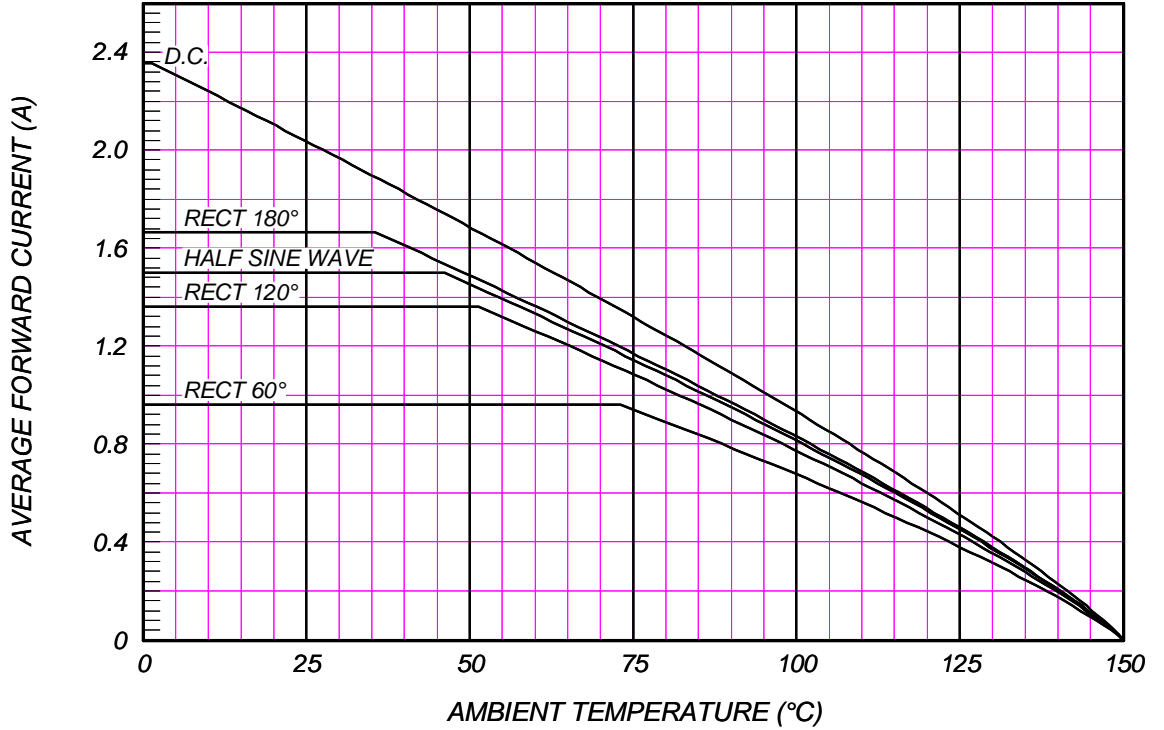




AVERAGE FORWARD CURRENT VS. AMBIENT TEMPERATURE

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

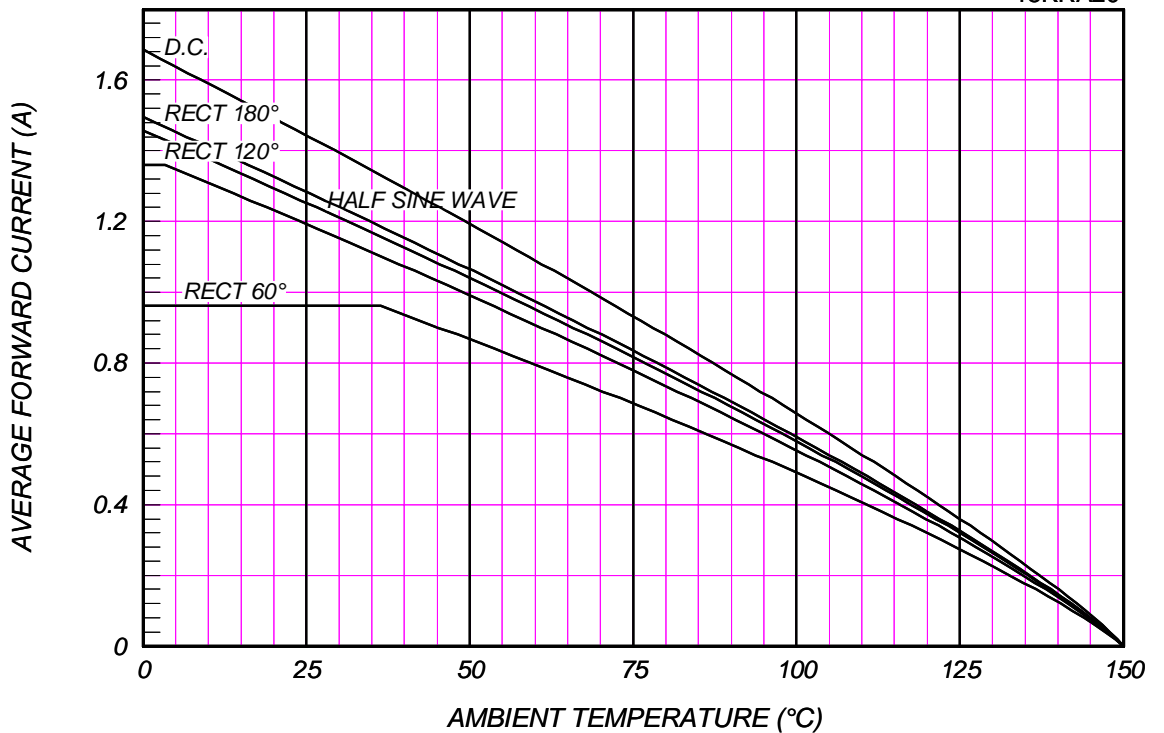
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AVERAGE FORWARD CURRENT VS. AMBIENT TEMPERATURE

Without Fin or P.C. Board

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SURGE CURRENT RATINGS

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

15KRA20

