

## RM4 - RM4Z

**PRV : 100 - 400 Volts**  
**Io : 1.7 Ampere**

### FEATURES :

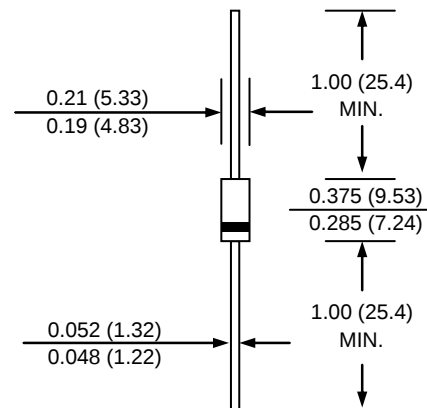
- \* High current capability
- \* High surge current capability
- \* High reliability
- \* Low reverse current
- \* Low forward voltage drop
- \* **Pb / RoHS Free**

### MECHANICAL DATA :

- \* Case : DO-201AD Molded plastic
- \* Epoxy : UL94V-O rate flame retardant
- \* Lead : Axial lead solderable per MIL-STD-202, Method 208 guaranteed
- \* Polarity : Color band denotes cathode end
- \* Mounting position : Any
- \* Weight : 1.21 grams

## SILICON RECTIFIER DIODES

### DO - 201AD



Dimensions in inches and ( millimeters )

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25 °C ambient temperature unless otherwise specific.

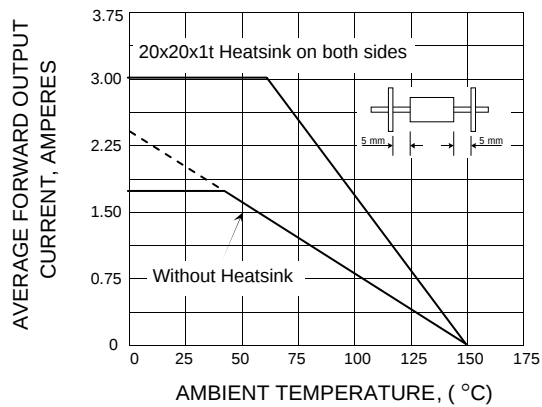
Single phase, half wave, 60 Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

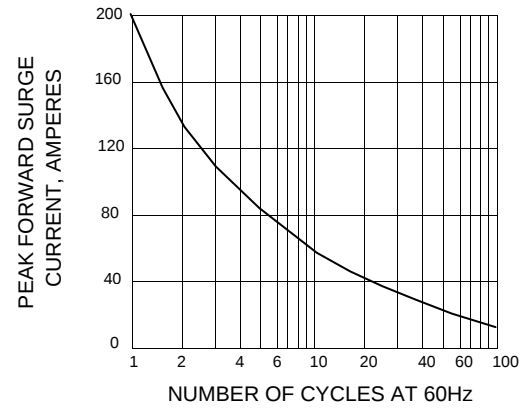
| RATING                                                                         | SYMBOL      | RM4Y                         | RM4Z | RM4 | UNIT    |
|--------------------------------------------------------------------------------|-------------|------------------------------|------|-----|---------|
| Maximum Reverse Voltage                                                        | $V_{RM}$    | 100                          | 200  | 400 | V       |
| Maximum Peak Reverse Surge Voltage                                             | $V_{RSM}$   | 150                          | 250  | 450 | V       |
| Maximum Average Forward Current                                                | $I_{F(AV)}$ | 1.7 (3.0 A is with Heatsink) |      |     | A       |
| Maximum Peak Forward Surge Current<br>Half-cycle Sine wave, 50 Hz, Single Shot | $I_{FSM}$   | 200                          |      |     | A       |
| Maximum Forward Voltage at $I_F = 3.0$ A                                       | $V_F$       | 0.95                         |      |     | V       |
| Maximum Reverse Current $T_a = 25$ °C                                          | $I_R$       | 10                           |      |     | $\mu$ A |
| at $V_R = V_{Rmax}$ . $T_a = 150$ °C                                           | $I_{R(H)}$  | 50                           |      |     | $\mu$ A |
| Junction Temperature Range                                                     | $T_J$       | - 40 to + 150                |      |     | °C      |
| Storage Temperature Range                                                      | $T_{STG}$   | - 40 to + 150                |      |     | °C      |

## RATING AND CHARACTERISTIC CURVES ( RM4 - RM4Z )

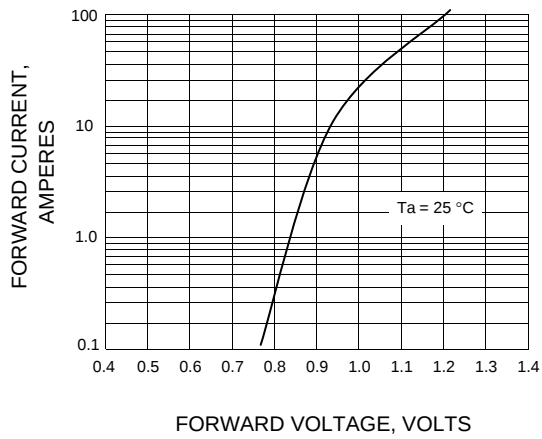
**FIG.1 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT**



**FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT**



**FIG.3 - TYPICAL FORWARD CHARACTERISTICS**



**FIG.4 - TYPICAL REVERSE CHARACTERISTICS**

