

# RM11A - RM11C

**PRV : 600 - 1000 Volts**  
**Io : 1.2 Amperes**

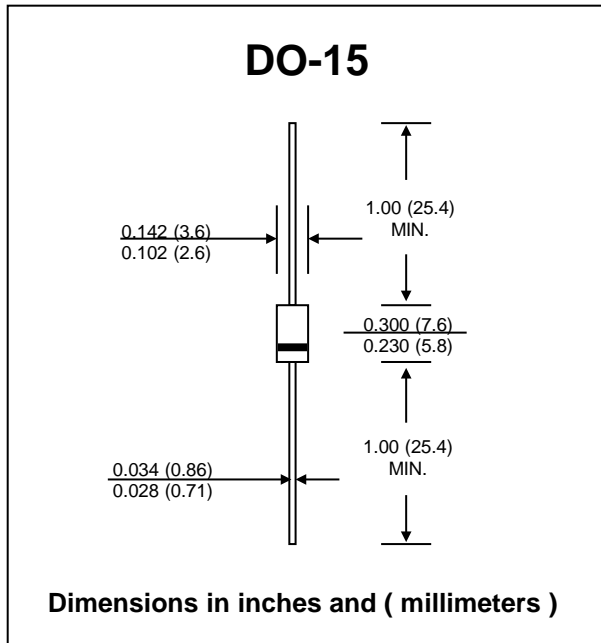
**FEATURES :**

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

**MECHANICAL DATA :**

- \* Case : DO-15 Molded plastic
- \* Epoxy : UL94V-0 rate flame retardant
- \* Lead : Axial lead solderable per MIL-STD-202, Method 208 guaranteed
- \* Polarity : Color band denotes cathode end
- \* Mounting position : Any
- \* Weight : 0.4 gram

# SILICON RECTIFIER DIODES



## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25 °C ambient temperature unless otherwise specified.  
 Single phase, half wave, 60 Hz, resistive or inductive load.  
 For capacitive load, derate current by 20%.

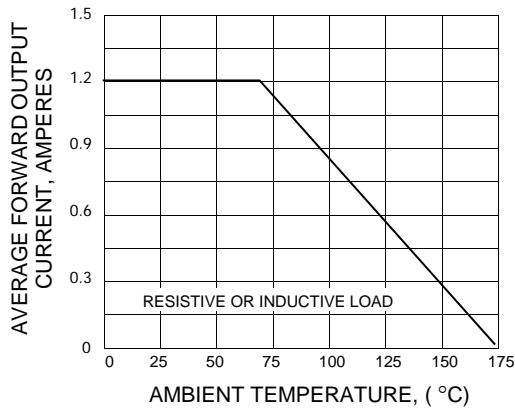
RATING	SYMBOL	RM11A	RM11B	RM11C	UNIT
Maximum Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	600	800	1000	V
Maximum RMS Voltage	V <sub>RMS</sub>	420	560	700	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	600	800	1000	V
Maximum Average Forward Current 0.375"(9.5mm) Lead Length Ta = 70 °C	I <sub>F</sub>	1.2			A
Peak Forward Surge Current 8.3ms Single half sine wave Superimposed on rated load (JEDEC Method)	I <sub>FSM</sub>	100			A
Maximum Forward Voltage at I <sub>F</sub> = 1.5 A	V <sub>F</sub>	0.92			V
Maximum DC Reverse Current Ta = 25 °C at rated DC Blocking Voltage Ta = 100 °C	I <sub>R</sub>	10			μA
	I <sub>R(H)</sub>	50			μA
Typical Junction Capacitance (Note1)	C <sub>J</sub>	30			pF
Typical Thermal Resistance (Note2)	RθJA	50			°C/W
Junction Temperature Range	T <sub>J</sub>	- 65 to + 175			°C
Storage Temperature Range	T <sub>STG</sub>	- 65 to + 175			°C

**Notes :**

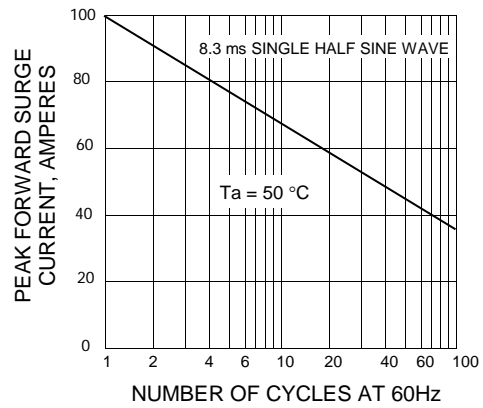
- (1) Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc
- (2) Thermal resistance from Junction to Ambient at 0.375" (9.5mm) Lead Lengths, P.C. Board Mounted.

**RATING AND CHARACTERISTIC CURVES ( RM11A - RM11C )**

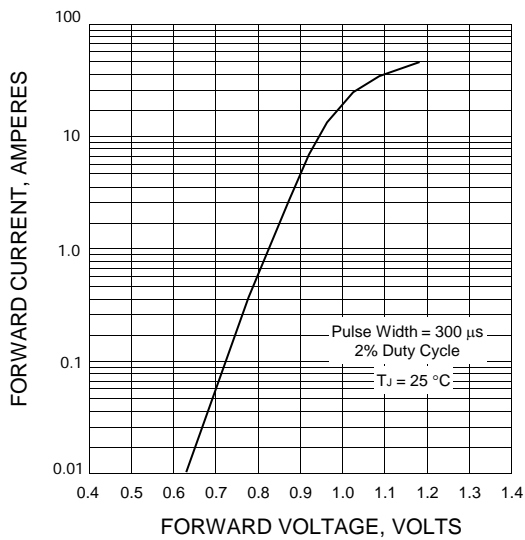
**FIG.1 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT**



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



**FIG.3 - TYPICAL FORWARD CHARACTERISTICS**



**FIG.4 - TYPICAL REVERSE CHARACTERISTICS**

