

**Micro Commercial Components** 

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# RM1200E THRU RM2000E

# 500 Milliamp High Voltage Silicon Rectifier 1200 to 2000 Volts

# **Features**

- Low Cost
- Low Leakage
- Low Forward Voltage Drop
- · High Current Capability
- High Voltage
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0

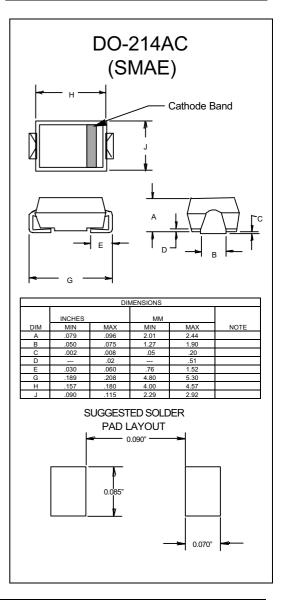
## **Maximum Ratings**

Operating Temperature: -55°C to +150°C
 Storage Temperature: -55°C to +150°C

MCC	Device	Maximum	Maximum	Maximum
Catalog	Marking	Recurrent	RMS	DC
Number		Peak Reverse Voltage		Blocking
		Voltage		Voltage
RM1200E	RM12	1200V	840V	1200V
RM1500E	RM15	1500V	1050V	1500V
RM1800E	RM18	1800V	1260V	1800V
RM2000E	RM20	2000V	1400V	2000V

## Electrical Characteristics @ 25°C Unless Otherwise Specified

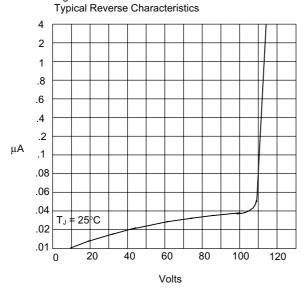
Average Forward Current	I <sub>F(AV)</sub>	500mA	T <sub>A</sub> = 50°C
Peak Forward Surge Current	I <sub>FSM</sub>	30A	8.3ms, half sine
Maximum Instantaneous Forward Voltage RM1200E-RM1800E RM2000E	$V_{F}$	2.0V 3.0V	I <sub>FM</sub> = 0.5A; T <sub>A</sub> = 50°C
Maximum DC Reverse Current At Rated DC Blocking Voltage	I <sub>R</sub>	5.0μA 50μA	T <sub>A</sub> = 25°C T <sub>A</sub> = 100°C
Typical Junction Capacitance	C <sub>J</sub>	30pF	Measured at 1.0MHz, V <sub>R</sub> =4.0V





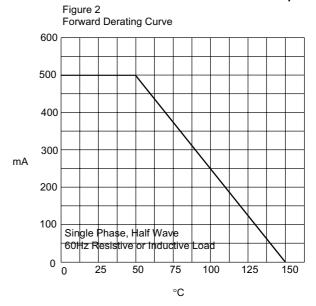
## RM1200E - RM2000E

Figure 1

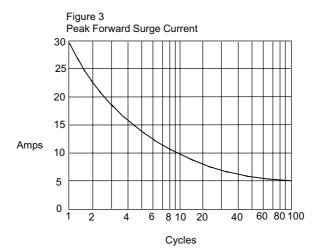


Instantaneous Reverse Current - Micro Ampsversus Percent Of Rated Peak Reverse Voltage - Volts

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Average Forward Rectified Current - Amperes/ersus Ambient Temperature -°C



Peak Forward Surge Current - Amperesversus Number Of Cycles At 60Hz - Cycles



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