



Micro Commercial Components

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# RM1200E THRU RM2000E

## Features

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

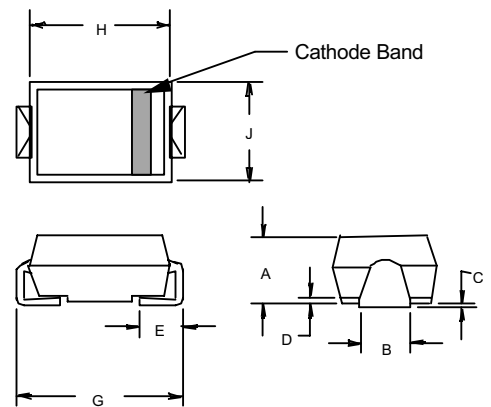
## Maximum Ratings

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

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

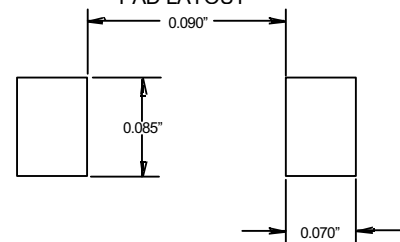
## 500 Milliamp High Voltage Silicon Rectifier 1200 to 2000 Volts

### DO-214AC (SMAE)



DIM	DIMENSIONS				NOTE
	INCHES		MM		
A	.079	.096	2.01	2.44	
B	.050	.075	1.27	1.90	
C	.002	.008	.05	.20	
D	---	.02	---	.51	
E	.030	.060	.76	1.52	
G	.189	.208	4.80	5.30	
H	.157	.180	4.00	4.57	
J	.090	.115	2.29	2.92	

#### SUGGESTED SOLDER PAD LAYOUT

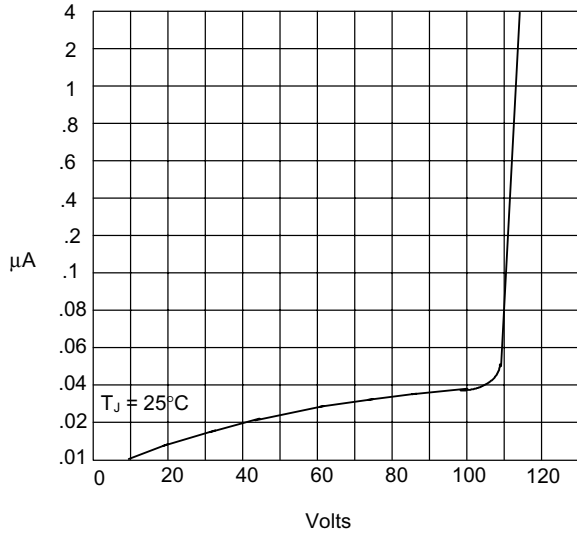


## Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	500mA	$T_A = 50^\circ\text{C}$
Peak Forward Surge Current	$I_{FSM}$	30A	8.3ms, half sine
Maximum Instantaneous Forward Voltage RM1200E-RM1800E RM2000E	$V_F$	2.0V 3.0V	$I_{FM} = 0.5A;$ $T_A = 50^\circ\text{C}$
Maximum DC Reverse Current At Rated DC Blocking Voltage	$I_R$	5.0 $\mu\text{A}$ 50 $\mu\text{A}$	$T_A = 25^\circ\text{C}$ $T_A = 100^\circ\text{C}$
Typical Junction Capacitance	$C_J$	30pF	Measured at 1.0MHz, $V_R=4.0V$

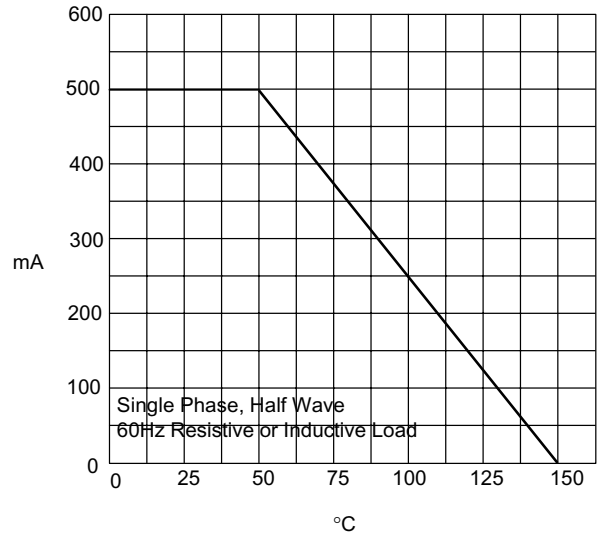
RM1200E - RM2000E

Figure 1  
Typical Reverse Characteristics



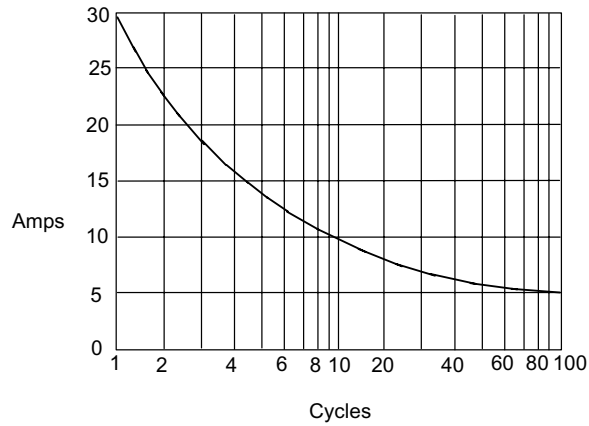
Instantaneous Reverse Current - Micro Amperes versus  
Percent Of Rated Peak Reverse Voltage - Volts

Figure 2  
Forward Derating Curve



Average Forward Rectified Current - Amperes versus  
Ambient Temperature -  $^\circ\text{C}$

Figure 3  
Peak Forward Surge Current



Peak Forward Surge Current - Amperes versus  
Number Of Cycles At 60Hz - Cycles



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