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

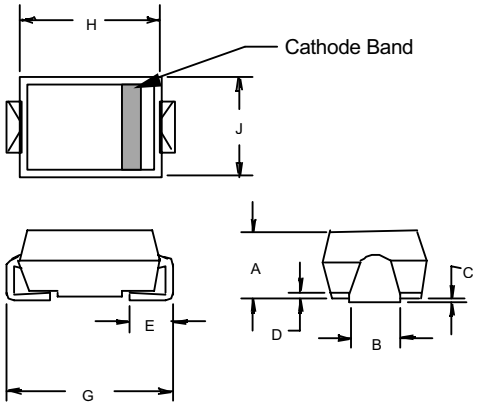
- Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C

MCC 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

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	500mA	T_A = 50°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°C
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	5.0µA 50µA	T_A = 25°C T_A = 100°C
Typical Junction Capacitance	C_J	30pF	Measured at 1.0MHz, V_R=4.0V

DO-214AC
(SMAE)



DIM	INCHES MIN	INCHES MAX	MM MIN	MM MAX	NOTE
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

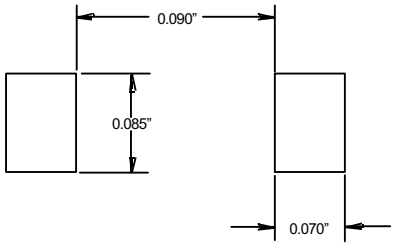
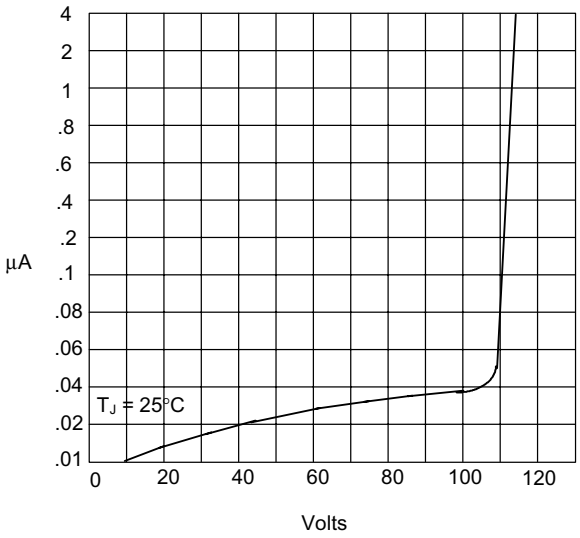
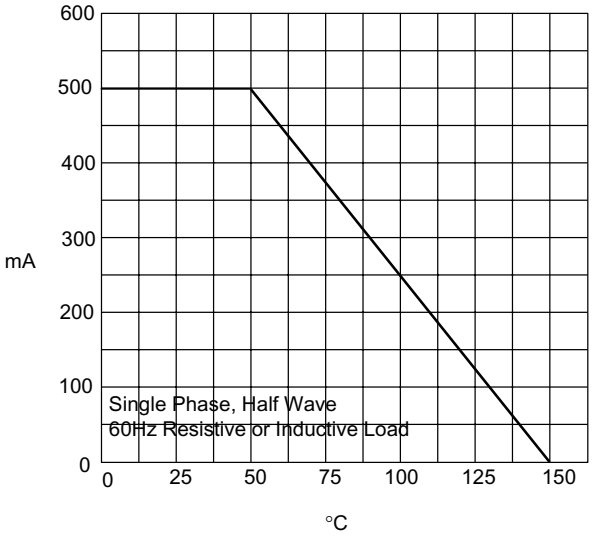


Figure 1
Typical Reverse Characteristics



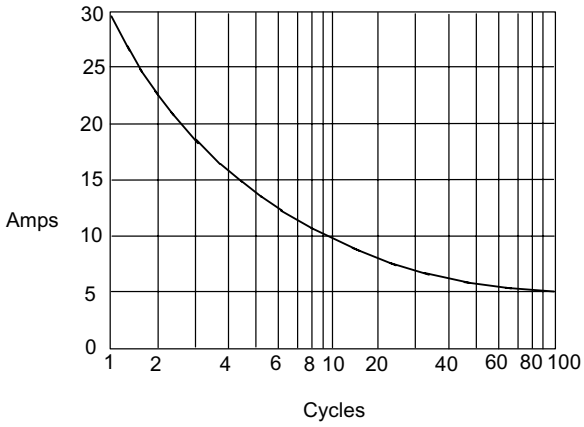
Instantaneous Reverse Current - Micro Amps *versus*
Percent Of Rated Peak Reverse Voltage - Volts

Figure 2
Forward Derating Curve



Average Forward Rectified Current - Amperes *versus*
Ambient Temperature -°C

Figure 3
Peak Forward Surge Current



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

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