



RM1200E THRU RM2000E

High Voltage Silicon Rectifier

Reverse Voltage - 50 to 1000 Volts Forward Current - 1.0 Ampere

FEATURES

Lead Free Finish/Rohs Compliant (Note1) ("P" Suffix designates Compliant. See ordering information)

Low Forward Voltage Drop

High Current Capability

High Voltage

Epoxy meets UL 94 V-0 flammability rating

Moisture Sensitivity Level 1

MECHANICAL DATA

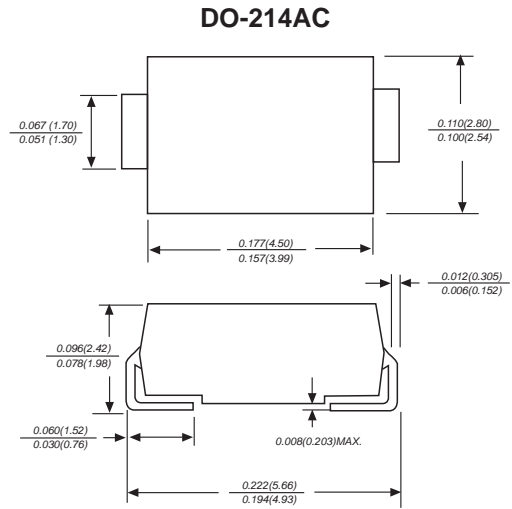
Case: JEDEC DO-214AC molded plastic body

Terminals: Solder plated, solderable per MIL-STD-750, Method 2026

Polarity: Color band denotes cathode end

Mounting Position: Any

Weight: 0.002 ounce, 0.07 grams



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

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

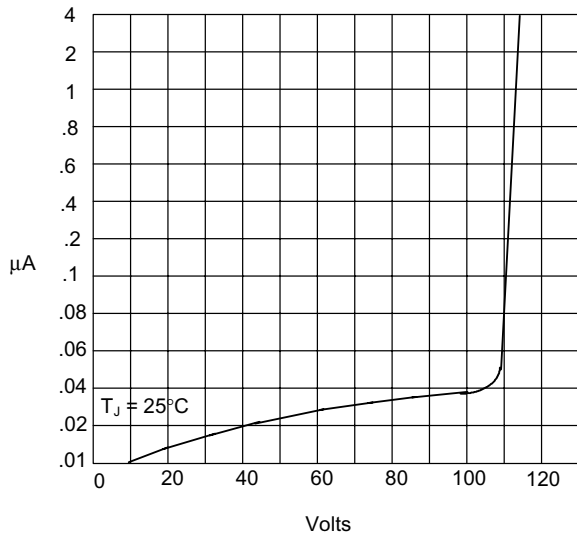
Average Forward Current	$I_{F(AV)}$	1.0A	$T_A = 25^\circ C$
Peak Forward Surge Current	I_{FSM}	30A	8.3ms, half sine
Maximum Instantaneous Forward Voltage RM1200E-RM1800E RM2000E	V_F	1.1V	$I_{FM} = 1.0A;$ $T_A = 25^\circ C$
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	5.0μA 100μA	$T_A = 25^\circ C$ $T_A = 100^\circ C$
Typical Junction Capacitance	C_J	30pF	1.0MHz, $V_R = 4.0V$
Operating Temperature Storage Temperature	T_J, T_{STG}	-55°C to +150 C	

Note: 1. High Temperature Solder Exemptions Applied, see EU Directive Annex 7.



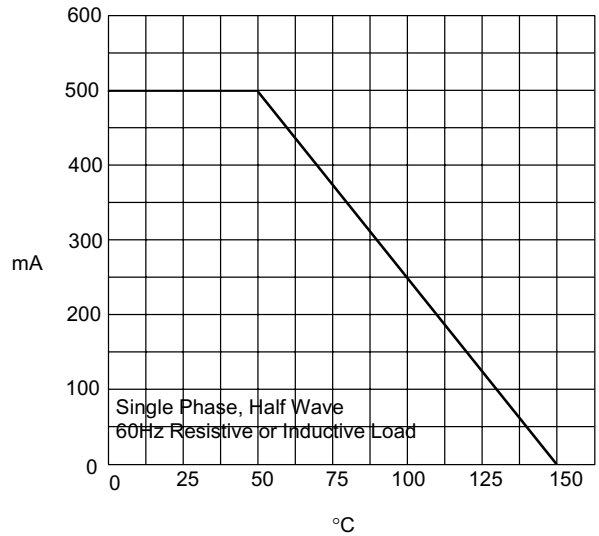
RATINGS AND CHARACTERISTIC CURVES RM1200E THRU RM2000E

Figure 1
Typical Reverse Characteristics



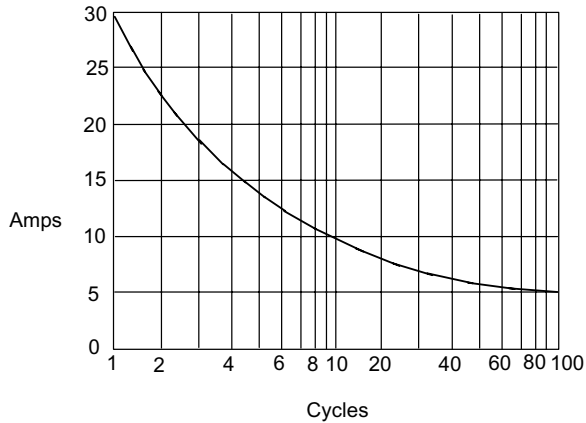
Instantaneous Reverse Current - Micro Amperes versus
Percent Of Rated Peak Reverse Voltage - Volts

Figure 2
Forward Derating Curve



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

Figure 3
Peak Forward Surge Current



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