



Micro Commercial Components



Micro Commercial Components
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RM1200E THRU RM2000E

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

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 |

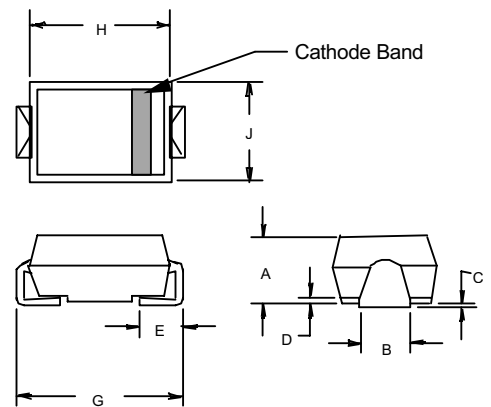
Electrical Characteristics @ 25°C Unless Otherwise Specified

| | | | |
|---|-------------|---------------|---|
| Average Forward Current | $I_{F(AV)}$ | 500mA | $T_A = 50^\circ\text{C}$ |
| 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 | 5.0µA 50µA | $T_A = 25^\circ\text{C}$ $T_A = 100^\circ\text{C}$ |
| Typical Junction Capacitance | C_J | 30pF | Measured at 1.0MHz, $V_R=4.0V$ |

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

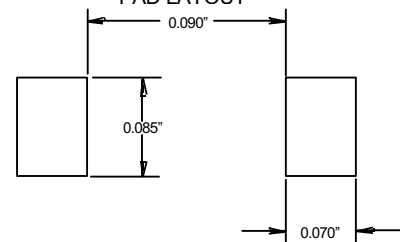
500 Milliamp High Voltage Silicon Rectifier 1200 to 2000 Volts

DO-214AC (SMAE)



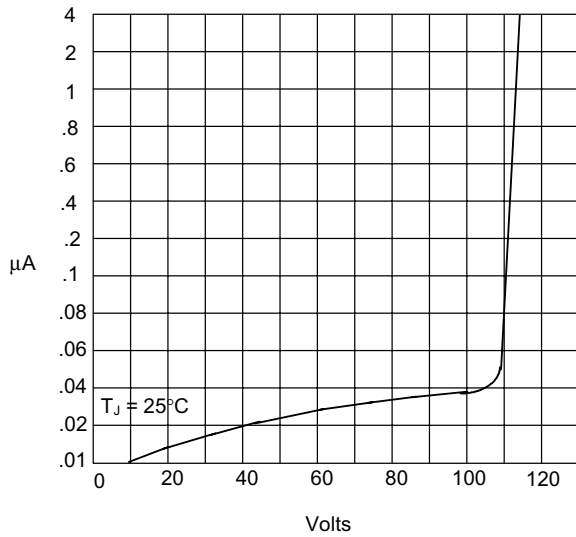
| DIM | DIMENSIONS | | | | NOTE |
|-----|------------|------|------|------|------|
| | INCHES | | MM | | |
| A | .079 | .096 | 2.01 | 2.44 | |
| B | .050 | .075 | 1.27 | 1.90 | |
| C | .002 | .008 | .05 | .20 | |
| D | --- | .02 | --- | .51 | |
| E | .030 | .060 | .76 | 1.52 | |
| G | .189 | .208 | 4.80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

SUGGESTED SOLDER PAD LAYOUT



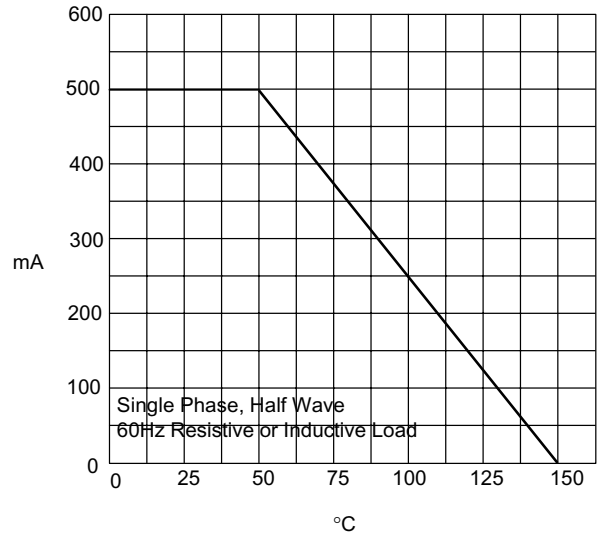
RM1200E - RM2000E

Figure 1
Typical Reverse Characteristics



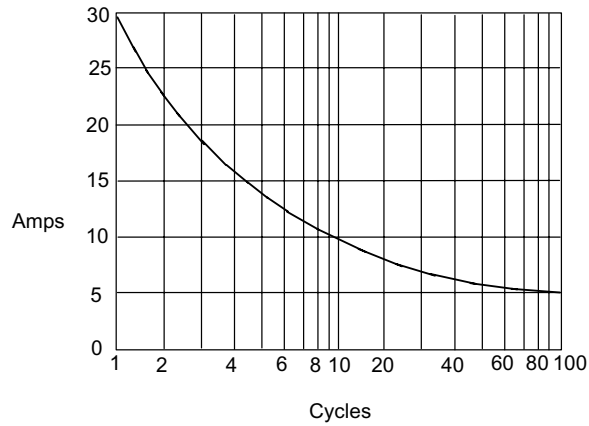
Instantaneous Reverse Current - Micro Amperes versus
Percent Of Rated Peak Reverse Voltage - Volts

Figure 2
Forward Derating Curve



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

Figure 3
Peak Forward Surge Current



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



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Ordering Information :

| Device | Packing |
|----------------|-----------------------|
| Part Number-TP | Tape&Reel: 6Kpcs/Reel |

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