



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Micro Commercial Components



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R1200F THRU R2000F

Features

- Lead Free Finish/RoHS Compliant (Note1) ("P" Suffix designates Compliant. See ordering information)
- High Current Capability
- Fast Switching For Higher Efficiency
- 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 |
|--------------------|----------------|--|---------------------|-----------------------------|
| R1200F | R1200F | 1200V | 840V | 1200V |
| R1500F | R1500F | 1500V | 1050V | 1500V |
| R1800F | R1800F | 1800V | 1260V | 1800V |
| R2000F | R2000F | 2000V | 1400V | 2000V |

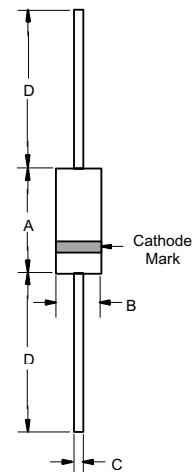
Electrical Characteristics @ 25°C Unless Otherwise Specified

| | | | |
|--|-------------|---------------|---|
| 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 R1200F-R1800F R2000F | V_F | 2.4V 4.0V | $I_{FM} = 0.5A;$ $T_A = 50^\circ\text{C}$ |
| 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, $V_R=4.0V$ |
| Maximum Reverse Recovery Time | T_{rr} | 500nS | |

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

500 Milliamp High Voltage Fast Recovery Silicon Rectifier 1200 to 2000 Volts

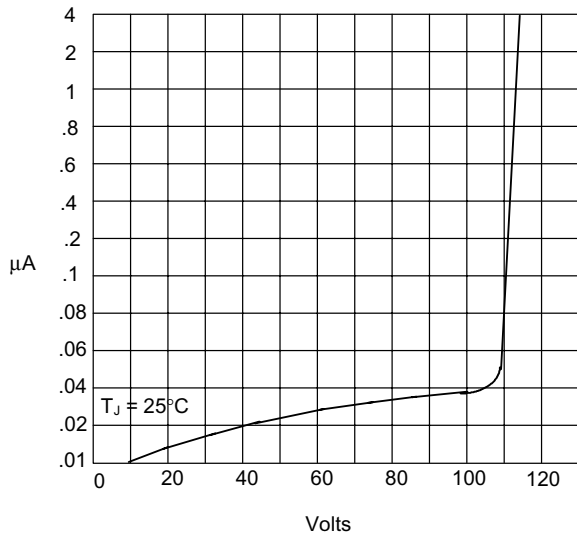
DO-41



| DIM | DIMENSIONS | | | | NOTE |
|-----|------------|----------|-----------|----------|------|
| | INCHES | | MM | | |
| A | MIN .166 | MAX .205 | MIN 4.10 | MAX 5.20 | |
| B | MIN .080 | MAX .107 | MIN 2.00 | MAX 2.70 | |
| C | MIN .028 | MAX .034 | MIN .70 | MAX .90 | |
| D | MIN 1.000 | MAX --- | MIN 25.40 | MAX --- | |

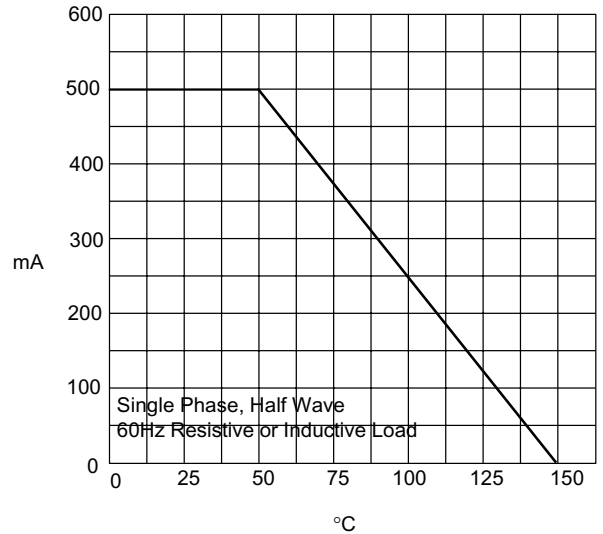
R1200F thru R2000F

Figure 1
Typical Reverse Characteristics



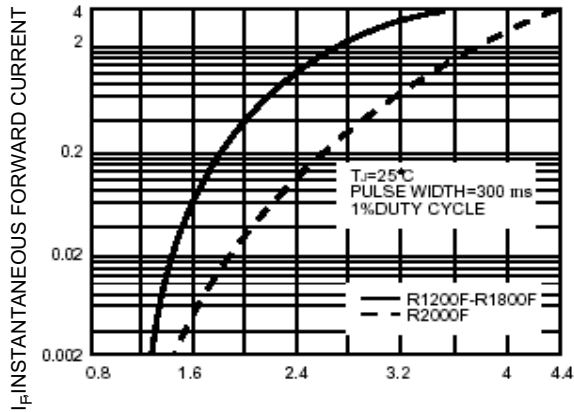
Instantaneous Reverse Current - Micro Amps versus
Percent Of Rated Peak Reverse Voltage - Volts

Figure 2
Forward Derating Curve



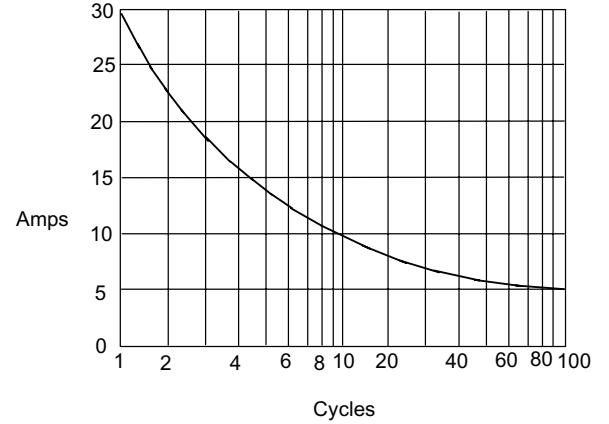
Average Forward Rectified Current - Amperes versus
Ambient Temperature - $^\circ C$

Figure 3
Typical Forward Characteristics



V_F , INSTANTANEOUS FORWARD VOLTAGE (V)

Figure 4
Peak Forward Surge Current



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



Micro Commercial Components

Ordering Information :

| Device | Packing |
|----------------|------------------------------|
| Part Number-TP | Tape&Reel: 5Kpcs/Reel |
| Part Number-AP | Ammo Packing: 5Kpcs/Ammo Box |
| Part Number-BP | Bulk: 50Kpcs/Carton |

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