



Micro Commercial Components
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RB151 THRU RB157

Features

- Low Profile Package
- Any Mounting Position
- Silver Plated Copper Leads
- Surge Overload Rating Of 50 Amps

1.5 Amp Single Phase Bridge Rectifier 50 to 1000 Volts

Maximum Ratings

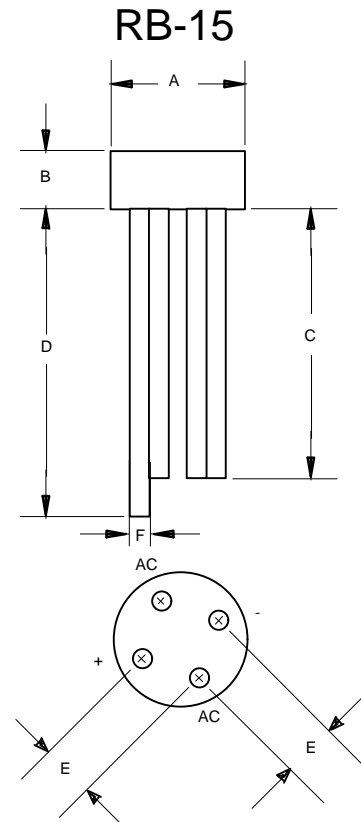
- Operating Temperature: -55°C to +125°C
- Storage Temperature: -55°C to +150°C

| MCC Catalog Number | Device Marking | Maximum Recurrent Peak Reverse Voltage | Maximum RMS Voltage | Maximum DC Blocking Voltage |
|--------------------|----------------|--|---------------------|-----------------------------|
| RB151 | RB151 | 50V | 35V | 50V |
| RB152 | RB152 | 100V | 70V | 100V |
| RB153 | RB153 | 200V | 140V | 200V |
| RB154 | RB154 | 400V | 280V | 400V |
| RB155 | RB155 | 600V | 420V | 600V |
| RB156 | RB156 | 800V | 560V | 800V |
| RB157 | RB157 | 1000v | 700V | 1000v |

Electrical Characteristics @ 25°C Unless Otherwise Specified

| | | | |
|---|-------------|-------------|---|
| Average Forward Current | $I_{F(AV)}$ | 1.5A | $T_J = 25^\circ\text{C}$ |
| Peak Forward Surge Current | I_{FSM} | 50A | 8.3ms, half sine |
| Maximum Forward Voltage Drop Per Element | V_F | 1.0V | $I_{FM} = 1.5\text{A}; T_J = 25^\circ\text{C}^*$ |
| Maximum DC Reverse Current At Rated DC Blocking Voltage | I_R | 10µA 1mA | $T_J = 25^\circ\text{C}$ $T_J = 100^\circ\text{C}$ |

*Pulse test: Pulse width 300 µsec, Duty cycle 1%

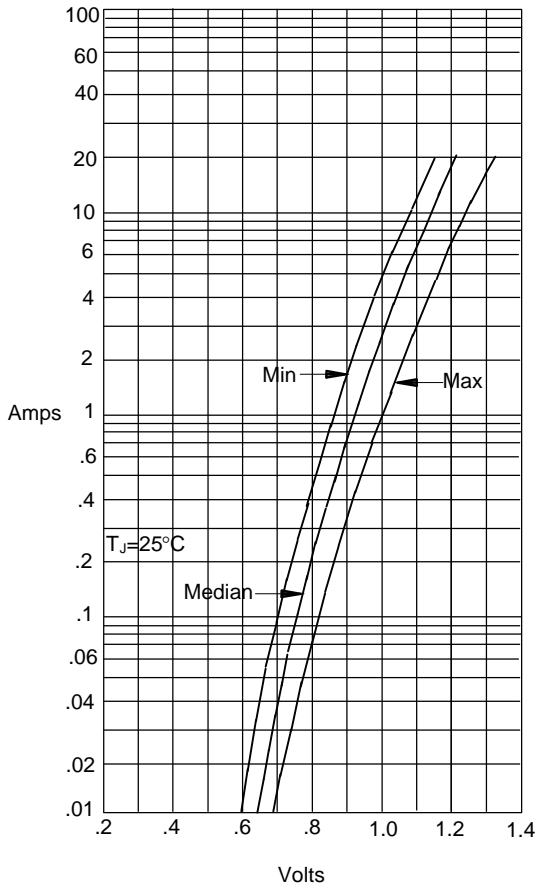


| DIM | INCHES | | MM | | NOTE |
|-----|--------|------|-------|------|------|
| | MIN | MAX | MIN | MAX | |
| A | --- | .358 | --- | 9.10 | |
| B | --- | .157 | --- | 4.00 | |
| C | 1.000 | --- | 25.40 | --- | |
| D | 1.098 | --- | 27.90 | --- | |
| E | .180 | .220 | 4.60 | 5.60 | |
| F | .030 | .032 | 0.76 | 0.81 | |

RB151 thru RB157

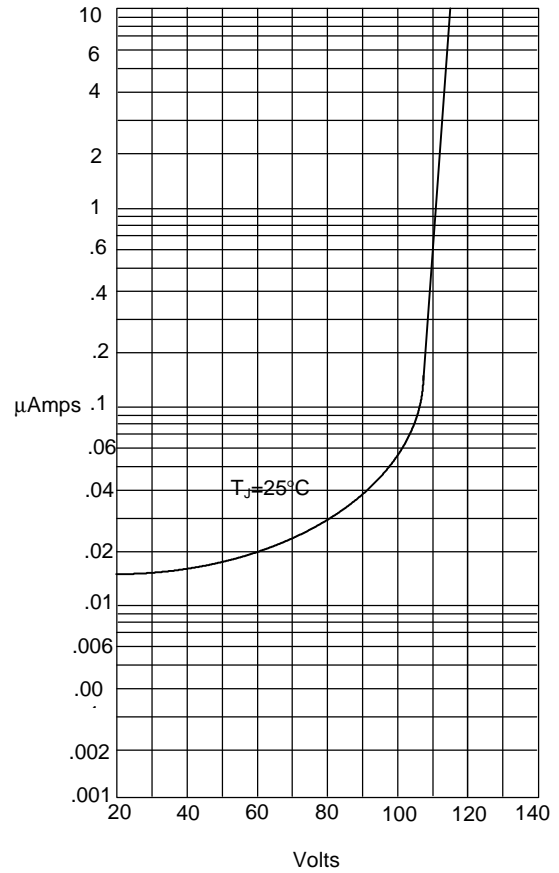


Figure 1
Typical Forward Characteristics



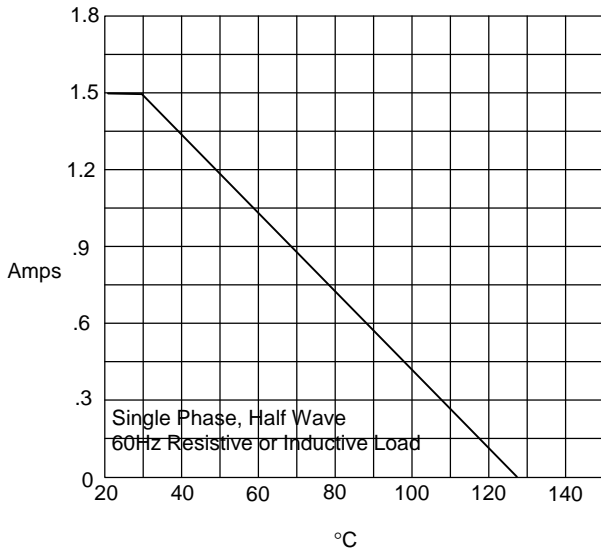
Instantaneous Forward Current - Amperes versus
Instantaneous Forward Voltage - Volts

Figure 2
Typical Reverse Characteristics



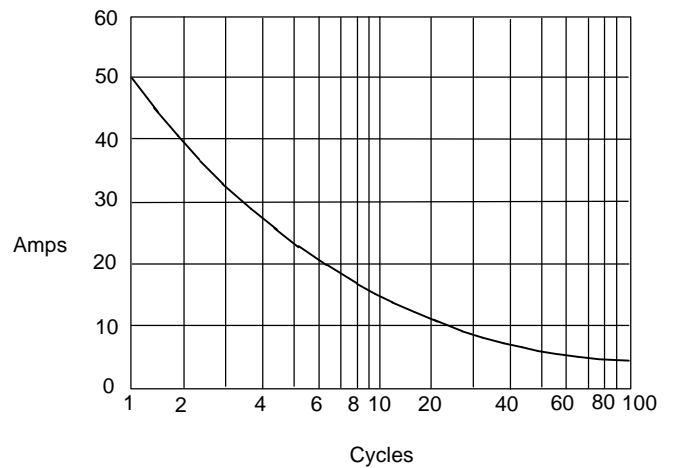
Instantaneous Reverse Leakage Current - MicroAmperes versus
Percent Of Rated Peak Reverse Voltage - Volts

Figure 3
Forward Derating Curve



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

Figure 4
Peak Forward Surge Current



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