



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

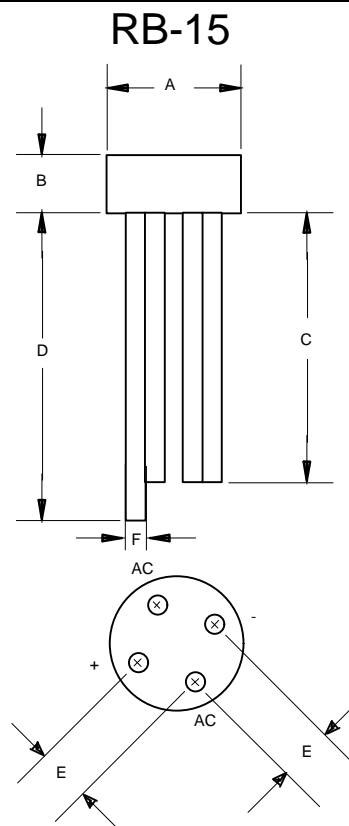
- Operating Temperature: -55°C to +125°C
- Storage Temperature: -55°C to +150°C

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%

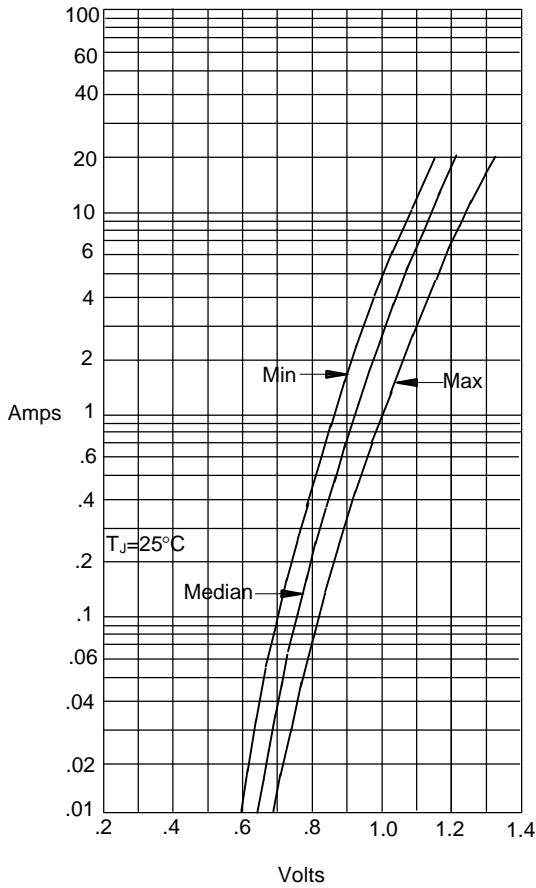


DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	---	.358	---	9.10	
B	---	.157	---	4.00	
C	1.000	---	25.40	---	
D	1.098	---	27.90	---	
E	.180	.220	4.60	5.60	
F	.030	.032	0.76	0.81	

# RB151 thru RB157

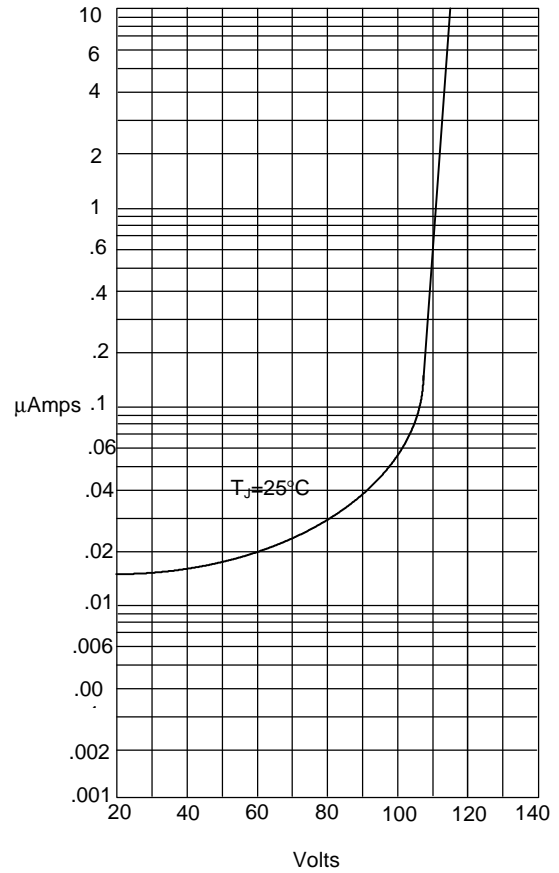


Figure 1  
Typical Forward Characteristics



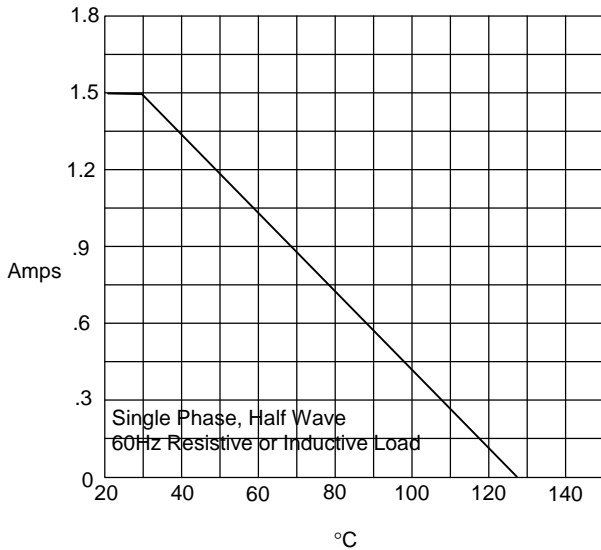
Instantaneous Forward Current - Amperes versus  
Instantaneous Forward Voltage - Volts

Figure 2  
Typical Reverse Characteristics



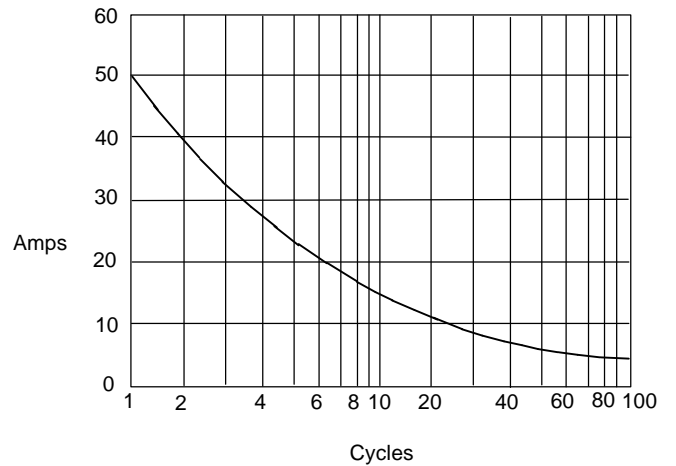
Instantaneous Reverse Leakage Current - MicroAmperes versus  
Percent Of Rated Peak Reverse Voltage - Volts

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