Chatsworth, CA
Microsemi
Progress Powered by Technology

9261 Owensmouth Ave.
Chatsworth, Ca 91311
Phone: (818) 701-4933
Fax: (818) 701-4939

RB151 THRU RB157

1.5 Amp Single Phase Bridge Rectifier 50 to 1000 Volts

Features

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

Maximum Ratings

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

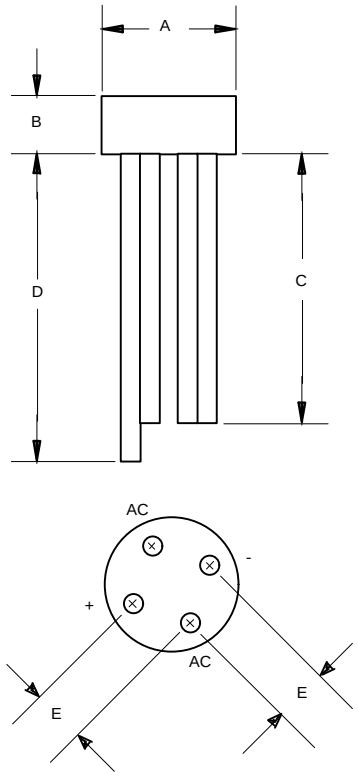
Microsemi Catalog Number	Device Marking	Maximum Reccurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
RB151	RB151	50V	35V	50V
RB152	RB152	100V	70V	100V
RB153	RB153	200V	140V	200V
RB154	RB154	400V	280V	400V
RB155	RB155	600V	420V	600V
RB156	RB156	800V	560V	800V
RB157	RB157	1000v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

Electrical Characteristics @ 25°C Unless Otherwise Specified

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

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

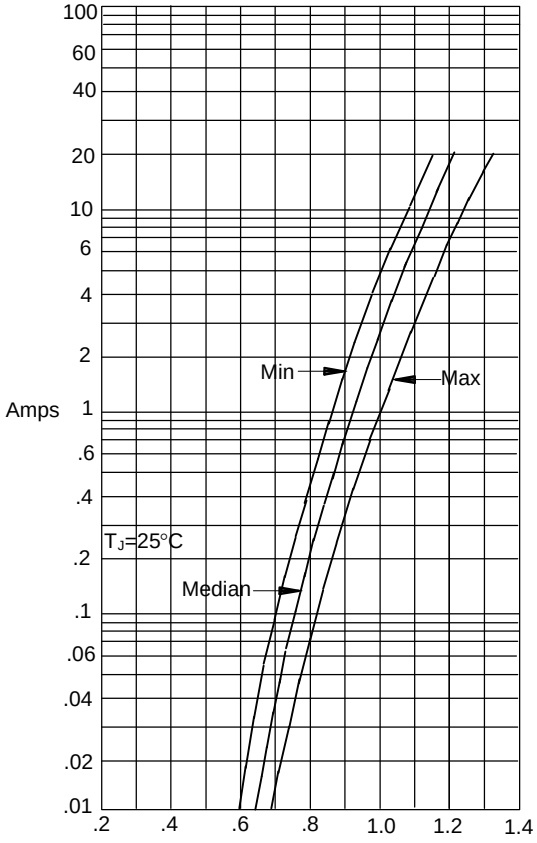
RB-15



DIMENSIONS					
	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
A	---	.358	---	9.10	
B	---	.157	---	4.00	
C	1.000	---	25.40	---	
D	1.200	---	30.50	---	
E	.180	.220	4.60	5.60	

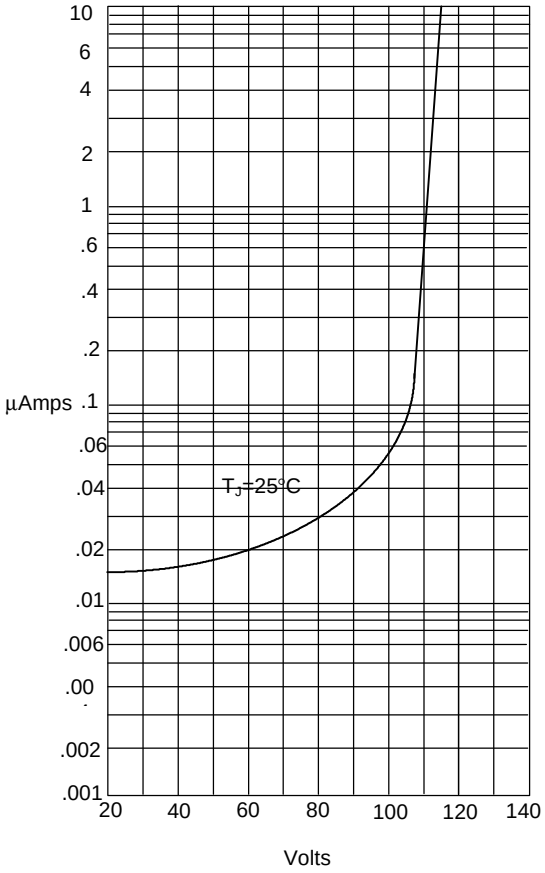
RB151 thru RB157

Figure 1
Typical Forward Characteristics



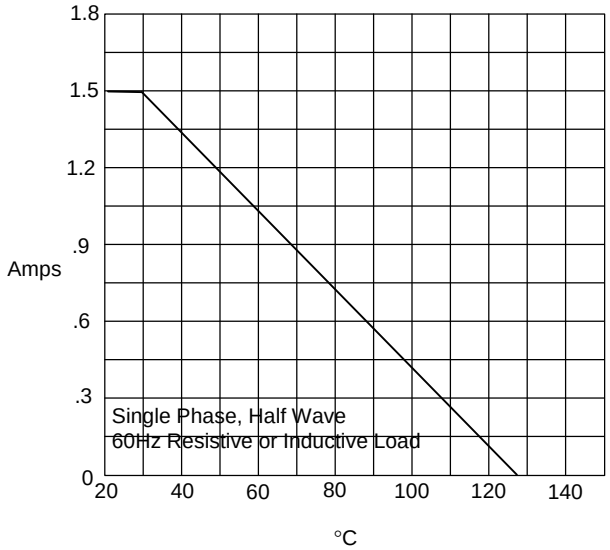
Instantaneous Forward Current - Amperes *versus*
Instantaneous Forward Voltage - Volts

Figure 2
Typical Reverse Characteristics



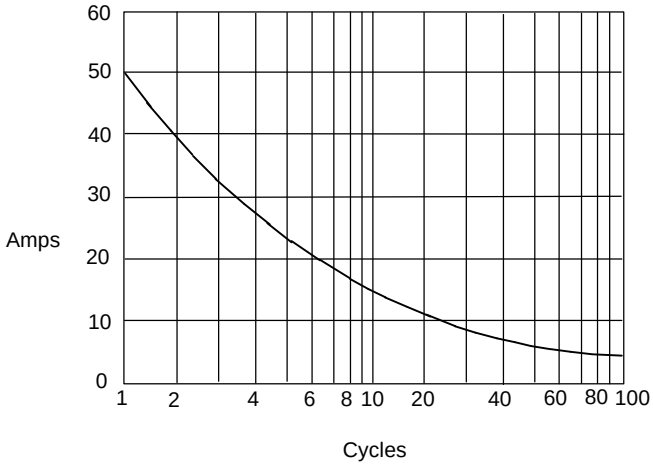
Instantaneous Reverse Leakage Current - MicroAmperes *versus*
Percent Of Rated Peak Reverse Voltage - Volts

Figure 3
Forward Derating Curve



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

Figure 4
Peak Forward Surge Current



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