

Micro Commercial Components

Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

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RB151 THRU RB157

Features

- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix designates RoHS Compliant. See ordering information)
- Case Material:Molded Plastic. UL Flammability Classification Rating 94V-0 and MSL Rating 1
- Low Profile Package
- Any Mounting Position and Low Profile Package
- 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

Thermal Resistance Junction to Ambient : Rthja=40°C/W

MCC Catalog	Device Marking	Maximum Recurrent	Maximum RMS	Maximum DC
Number		Peak Reverse Voltage	Voltage	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

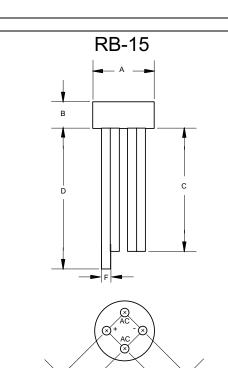
Electrical Characteristics @ 25°C Unless Otherwise Specified

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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%

Notes: 1. High Temperature Solder Exemption Applied, see EU Directive Annex Notes $\,$ 7.

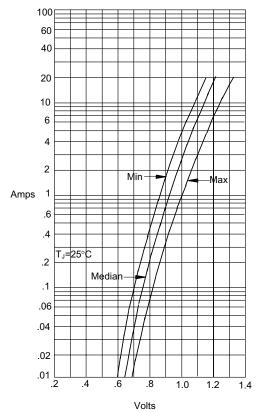
1.5 Amp Single Phase Bridge Rectifier 50 to 1000 Volts



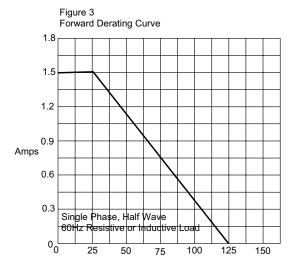
DIMENSIONS							
	INCHES		MM				
DIM	MIN	MAX	MIN	MAX	NOTE		
Α		.358		9.10			
В		.169		4.60			
С	1.000		25.40				
D	1.098		27.90				
Е	.180	.220	4.60	5.60			
F	.028	.032	0.71	0.81			

RB151 thru RB157

Figure 1 Typical Forward Characteristics



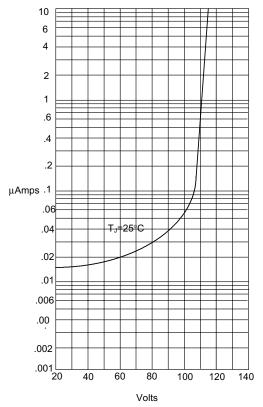
Instantaneous Forward Current - Amperesversus Instantaneous Forward Voltage - Volts



Average Forward Rectified Current - Amperes *versus* Case Temperature - C

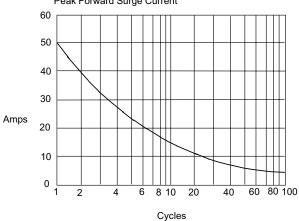


Figure 2 Micro Commercial Components Typical Reverse Characteristics



Instantaneous Reverse Leakage Current - MicroAmperewersus Percent Of Rated Peak Reverse Voltage - Volts

Figure 4
Peak Forward Surge Current



Peak Forward Surge Current - Amperesversus Number Of Cycles At 60Hz - Cycles



Ordering Information

Device	Packing
(Part Number)-BP	Bulk;1Kpcs/Box

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