

Micro Commercial Components

Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311 Phone: (818) 701-4933 Fax: (818) 701-4939

Features

- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix designates RoHS Compliant. See ordering information)
- Case Material: Molded Plastic. UL Flammability Classification 94V-0 and MSL Rating 1
- Low Cost Construction Utilizing Void-free Molded Plastic
 Technique
- High Surge Capability, Glass Passivated Chip
- Diffused Junction

Maximum Ratings

• Operating & Storage Temperature: -55°C to +150°C

For Capacitive Load, Derate Current by 20%					
MCC Part Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage		
RA501GP	50V	35V	50V		
RA502GP	100V	70V	100V		
RA503GP	200V	140V	200V		
RA504GP	400V	280V	400V		
RA505GP	600V	420V	600V		
RA506GP	800V	560V	800V		
RA507GP	1000V	700V	1000V		

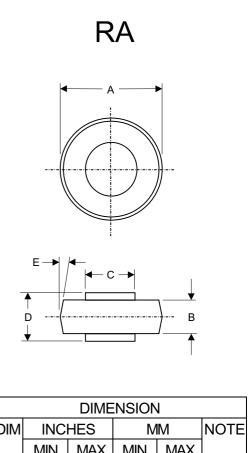
Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I _{F(AV)}	50.0A	T _C =125°C
Peak Forward Surge Current	I _{FSM}	500A	8.3ms half sine
Maximum Instantaneous Forward Voltage	V _F	1.1V	I _{FM} =50.0A T _A =25°C
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	5.0uA	T _C =25°C
Typical Reverse Recovery Times	t _{rr}	3.0us	I _F =0.5A, I _R =1.0A, I _{rr} =0.25A
Typical Junction Capacitance	Cj	300pF	Measured at 1.0MHz, V _R =4.0V

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

RA501GP THRU RA507GP

50.0 Amp High Current Glass Passivated Rectifier 50 to 1000 Volts



DIVIENSION						
DIM	INCHES		MM		NOTE	
	MIN	MAX	MIN	MAX		
А	.380	.410	9.70	10.40		
В	.165	.185	4.19	4.70		
С	.215	.225	5.50	5.70		
D	.235	.250	6.00	6.40		
Е		5°		5°	NOM	

www.mccsemi.com

Revision: 6

2008/06/24



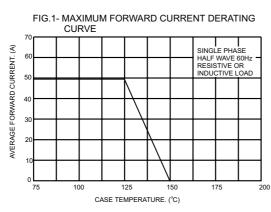
100

50

8.3ms Single Half JEDEC Method

20

RA501GP thru RA507GP



RATINGS AND CHARACTERISTIC CURVES

1000

50

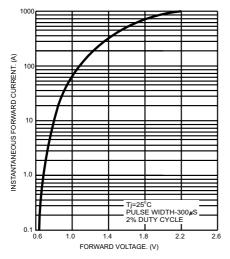
100

50

2

PEAK FORWARD SURGE CURRENT. (A)



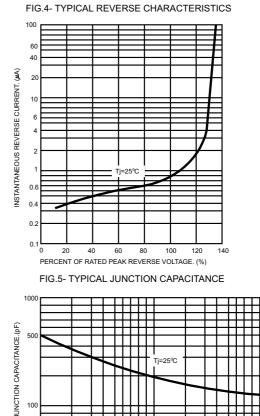


NUMBER OF CYCLES AT 60Hz

10

FIG.2- MAXIMUM NON-REPETITIVE PEAK FORWARD

SURGE CURRENT



5 10 2 REVERSE VOLTAGE. (V)

www.mccsemi.com

50

100



Ordering Information

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

IMPORTANT NOTICE

Micro Commercial Components Corp. reserves the right to make changes without further notice to any product herein to make corrections, modifications, enhancements, improvements, or other changes.
 Micro Commercial Components Corp. does not assume any liability arising out of the application or use of any product described herein; neither does it convey any license under its patent rights, nor the rights of others. The user of products in such applications shall assume all risks of such use and will agree to hold Micro Commercial Components Corp. and all the companies whose products are represented on our website, harmless against all damages.

APPLICATIONS DISCLAIMER

Products offer by Micro Commercial Components Corp. are not intended for use in Medical,

Aerospace or Military Applications.

