

ZIBO MICRO COMMERCIAL COMPONENTS CORP.

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RA251 THRU RA257

25 Amp Standard

Rectifier

50 to 1000 Volts

Features

- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix designates RoHS Compliant. See ordering information)
- Plastic Material Used Carriers Underwrites Laboratory
 Flammability Classification 94V- 0 and MSL Rating 1
- Low Cost Construction Utilizing Void-free Molded Plastic Technique
- High Surge Capability
- Diffused Junction

Maximum Ratings

Operating & Storage Temperature: -50°C to +150°C

For Capacitive Load, Derate Current by 20%

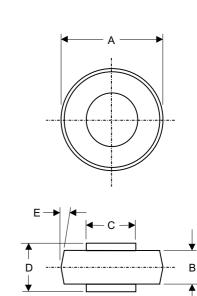
For Capacitive Load, Derate Current by 20%				
Part Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage	
RA251	50V	35V	50V	
RA252	100V	70V	100V	
RA253	200V	140V	200V	
RA254	400V	280V	400V	
RA255	600V	420V	600V	
RA256	800V	560V	800V	
RA257	1000V	700V	1000V	

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I _{F(AV)}	25.0A	T _C =125°C
Peak Forward Surge Current	I _{FSM}	400A	8.3ms half sine
Maximum Instantaneous Forward Voltage	V_{F}	1.1V	I _{FM} =25.0A 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	C _j	300pF	Measured at 1.0MHz, V _R =4.0V

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

RA



	DIMENSION						
DIM	INCHES		MM		NOTE		
	MIN	MAX	MIN	MAX			
Α	.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		



RA251 thru RA257

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RATINGSAND CHARACTERISTICCU RVES

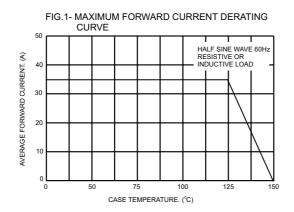


FIG.3- TYPICAL FORWARD CHARACTERISTICS

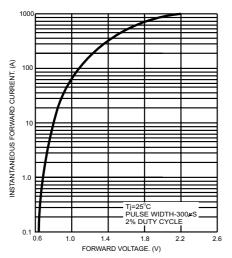


FIG.2- MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

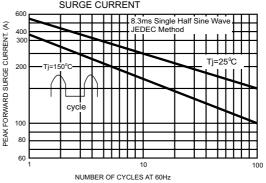


FIG.4- TYPICAL REVERSE CHARACTERISTICS

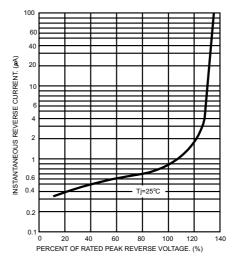
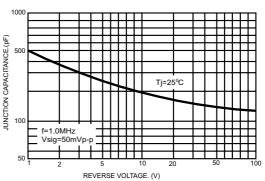


FIG.5- TYPICAL JUNCTION CAPACITANCE





Ordering Information

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

LIFE SUPPORT

ZBMCC's products are not authorized for use as critical components in life support devices or systems without the express written approval of ZiBo Micro Commercial Components Corp.

CUSTOMER AWARENESS

Counterfeiting of semiconductor parts is a growing problem in the industry. ZiBo Micro Commercial Components Corp. is taking strong measures to protect ourselves and our customers from the proliferation of counterfeit parts. ZBMCC strongly encourages customers to purchase ZBMCC parts either directly from ZBMCC or from Authorized ZBMCC Distributors who are listed by country on our web page cited below. Products customers buy either from ZBMCC directly or from Authorized ZBMCC Distributors are genuineparts, have full traceability, meet ZBMCC's quality standards for handling and storage. ZBMCC will not provide any warranty coverage or other assistance for parts bought from Unauthorized Sources. ZBMCC is committed to combat this global problem and encourage our customers to do their part in stopping this practice by buying direct or from authorized distributors.