

Product Catalog > [Diodes](#) > [Bridge Rectifiers](#) >

Part Number	GBJ1501
product family	BRIDGE RECTIFIERS
package type	GBJ
VRM(PRV)	100V
Ifsm	240A
IF(AV)	15A
@Vf	1.05V
@If	7.5A
Trr	
IR	10µA
@VR	100V
Package Qty	Tube : 15pcs/Tube, 750pcs/Box, 1.5K/Ctn;
Datasheet	<a href="#">Datasheet</a>

This product is listed under the following categories where you may find similar products:

[Diodes](#)

[Bridge Rectifiers](#)

**M·C·C·**

Micro Commercial Components

**GBJ15005**

**THRU**

**GBJ1510**

## Features

- Lead Free Finish/RoHS Compliant (NOTE 1) ("P" Suffix designates RoHS Compliant. See ordering information)
- Ideal for printed circuit board
- Low forward voltage drop, high current capability.
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0 and MSL Rating 1

## Maximum Ratings

- Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C
- Typical Thermal Resistance 0.8°C/W J to C (With heatsink)
- Typical Thermal Resistance 3.5°C/W J to L (Without heatsink)
- Typical Thermal Resistance 12°C/W J to A (Without heatsink)
- UL Recognized File # E165989

MCC Catalog Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
GBJ15005	GBJ15005	50V	35V	50V
GBJ1501	GBJ1501	100V	70V	100V
GBJ1502	GBJ1502	200V	140V	200V
GBJ1504	GBJ1504	400V	280V	400V
GBJ1506	GBJ1506	600V	420V	600V
GBJ1508	GBJ1508	800V	560V	800V
GBJ1510	GBJ1510	1000V	700V	1000V

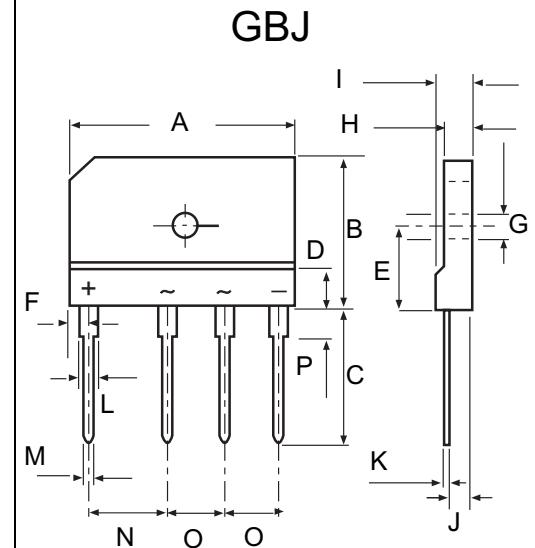
## Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	15 A	$T_c = 100^\circ\text{C}$
Peak Forward Surge Current	$I_{FSM}$	240A	8.3ms, half sine
Maximum Instantaneous Forward Voltage	$V_F$	1.05V	$I_{FM} = 7.5\text{A}$ $T_J = 25^\circ\text{C}$
Maximum DC Reverse Current At Rated DC Blocking Voltage	$I_R$	$10 \mu\text{A}$ $500\mu\text{A}$	$T_J = 25^\circ\text{C}$ $T_J = 125^\circ\text{C}$
$I^2t$ Rating for fusing	$I^2t$	$240\text{A}^2\text{s}$	( $t < 8.3\text{ms}$ )
Typical Junction Capacitance	$C_J$	60 pF	Measured at 1.0MHz, $V_R=4.0\text{V}$

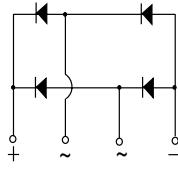
Notes: 1. High Temperature Solder Exemption Applied, see EU Directive Annex Notes 7

3. Device mounted on 300mm \* 300mm \*1.6mm Cu Plate Heatsink

**15 Amp  
Glass Passivated  
Bridge Rectifier  
50 to 1000 Volts**



DIM.	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	1.170	1.190	29.70	30.30	
B	.780	.800	19.70	20.30	
C	.670	.710	17.00	18.00	
D	.019	.019	4.70	4.90	
E	.430	.440	10.80	11.20	
F	.090	.110	2.30	2.70	
G	.120	.130	3.10	3.40	
H	.130	.150	3.40	3.80	
I	.170	.190	4.40	4.80	
J	.100	.110	2.50	2.90	
K	.020	.030	0.60	0.80	
L	.080	.090	2.00	2.40	
M	.040	.040	0.90	1.10	
N	.390	.400	9.80	10.20	
O	.290	.300	7.30	7.70	
P	.150	.170	3.80	4.20	



**Case Type**

<sup>TM</sup>

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## Ordering Information

Device	Packing
(Part Number)-BP	Bulk;15pcs/Tube

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