

Micro Commercial Components

Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

Phone: (818) 701-4933 Fax: (818) 701-4939

GBJ10005 THRU GBJ1010

Features

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

Maximum Ratings

- Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C
- UL Recognized File # E165989

MCC	Device	Maximum	Maximum	Maximum
Catalog	Marking	Reccurrent	RMS	DC
Number		Peak Reverse	Voltage	Blocking
		Voltage		Voltage
GBJ10005		50V	35V	50V
GBJ1001		100V	70V	100V
GBJ1002		200V	140V	200V
GBJ1004		400V	280V	400V
GBJ1006		600V	420V	600V
GBJ1008		800V	560V	V008
GBJ1010		1000V	700V	1000V

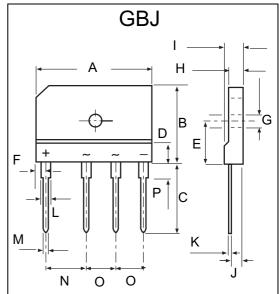
Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I _{F(AV)}	10 A	Tc = 110°C
Peak Forward Surge Current	I _{FSM}	170A	8.3ms, half sine
Maximum Instantaneous Forward Voltage	V _F	1.05V	I _{FM} = 5.0A T _J = 25°C
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	10 μA 500uA	T _J = 25°C T _J = 125°C
Typical thermal resistance	$R_{\Theta JC}$	1.4°C/W	
Typical Junction Capacitance	CJ	55 pF	Measured at 1.0MHz, V _R =4.0V

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

2. Pulse Test: Pulse Width 300usec, Duty Cycle 1%

10 Amp Glass Passivated Bridge Rectifier 50 to 1000 Volts



	DIMENSIONS				
	INCHES		ММ		
DIM	MIN	MAX	MIN	MAX	NOTE
Α	1.170	1.190	29.70	30.30	
В	.780	.800	19.70	20.30	
С	.670	.710	17.00	18.00	
D	.019	.019	4.70	4.90	
Е	.430	.440	10.80	11.20	
F	.090	.110	2.30	2.70	
G	.120	.130	3.10	3.40	
Н	.130	.150	3.40	3.80	
_	.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	
0	.290	.300	7.30	7.70	
Р	.150	.170	3.80	4.20	
Case Type					

RESISTIVE OR INDUCTIVE LOAD 40

60

80

CASE TEMPERATURE , $^{\circ}$ C

AVERAGE FORWARD CURRENT AMPERES

2.0

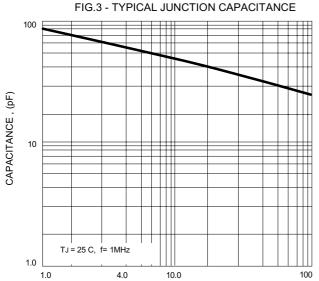
FIG.1 - FORWARD CURRENT DERATING CURVE 10.0 180 WITH HEATSINK 160 8.0 140 6.0 80 4.0

100

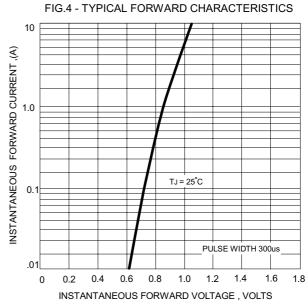
120

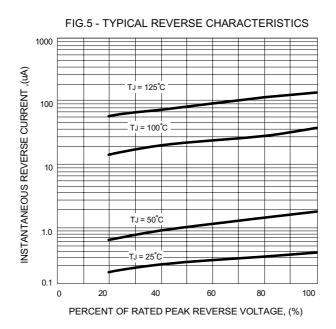
140

FIG.2 - MAXIMUM NON-REPETITIVE SURGE CURRENT PEAK FORWARD SURGE CURRENT, AMPERES 20 (JEDEC METHOD) 10 20 50 100 NUMBER OF CYCLES AT 60Hz



REVERSE VOLTAGE, VOLTS







Ordering Information

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

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