

Micro Commercial Components



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

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GBU4A THRU GBU4M

4 Amp Single Phase Glass Passivated Bridge Rectifier 50 to 1000 Volts

Features

- Halogen free available upon request by adding suffix "-HF"
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Glass Passivated Chip Junction
- High Surge Overload Rating
- 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
- Mounting Torque: 5in-lbs.

	meaning resquestion last.				
		Maximum		Maximum	
MCC	Device	Recurrent	Maximum	DC	
Part Number	Marking	Peak	RMS	Blocking	
		Reverse	Voltage	Voltage	
		Voltage			
GBU4A	GBU4A	50V	35V	50V	
GBU4B	GBU4B	100V	70V	100V	
GBU4D	GBU4D	200V	140V	200V	
GBU4G	GBU4G	400V	280V	400V	
GBU4J	GBU4J	600V	420V	600V	
GBU4K	GBU4K	800V	560V	800V	
GBU4M	GBU4M	1000V	700V	1000V	

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward	$I_{F(AV)}$	4 A	Tc = 100°C		
Current (NOTE 2)					
Peak Forward Surge	I _{FSM}	150A	8.3ms, half sine		
Current					
Maximum					
Instantaneous	V_{F}	1.0V	I _{FM} =2A		
Forward Voltage			T _J = 25°C		
Maximum DC					
Reverse Current At	I_R	5 μΑ	$T_J = 25^{\circ}C$		
Rated DC Blocking		500uA	T _J = 125°C		
Voltage			•		
Typical thermal	$R_{ hetaJA}$	22°C/W			
resistance per leg	$R_{ heta JC}$	2.2°C/W			
Typical Junction	CJ	45pF	Measured at		
Capacitance			1.0MHz, V _R =4.0V		



2. Unit case mounted on 1.6 x 1.6 x 0.06" thick $(4.0 \times 4.0 \times 0.15 \text{ cm})$ aluminum plate

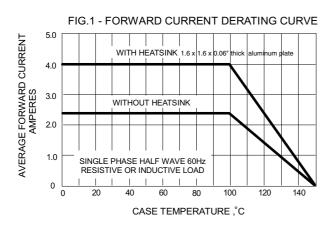
GBU
Case Style
A 3.2x45° C N N N N N N N N N N N N N N N N N N

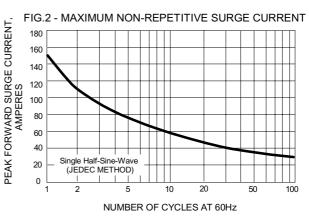
DIMENSIONS					
	INCHES		ММ		
DIM	MIN	MAX	MIN	MAX	NOTE
Α	.860	.880	21.80	22.30	
В	.720	.740	18.30	18.80	
O	.130	.140	3.30	3.56	
D	.690	.710	17.50	18.00	
Е	.030	.039	0.76	1.00	
F	.018	.022	0.46	0.56	
Ð	.290	.310	7.40	7.90	
Η	.140	.160	3.50	4.10	
ı	.065	.085	1.65	2.16	
J	.089	.108	2.25	2.75	
K	.077	.093	1.95	2.35	
L	.040	.050	1.02	1.27	
М	.190	.210	4.83	5.33	
N		7.0° TY	PICAL		



GBU4A thru GBU4M

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100 TJ = 25°C, f = 1MHz

10.0

REVERSE VOLTAGE, VOLTS

4.0

1.0

FIG.3 - TYPICAL JUNCTION CAPACITANCE

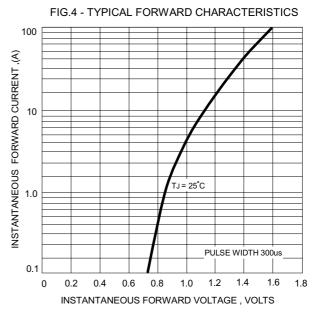
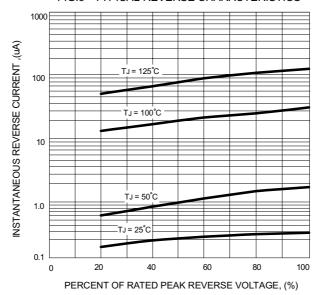


FIG.5 - TYPICAL REVERSE CHARACTERISTICS

100





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Ordering Information:

Device	Packing
Part Number-BP	Bulk: 1Kpcs/Box

Note: Adding "-HF" suffix for halogen free, eg. Part Number-BP-HF

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