

Micro Commercial Components

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GBU6A THRU GBU6M

Features

- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Halogen free available upon request by adding suffix "-HF"
- Glass Passivated Chip Junction
- High Surge Overload Rating
- Lead Free Finish/RoHS Compliant (NOTE 1)("P" Suffix designates RoHS Compliant. See ordering information)

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

GBU

- Maximum Ratings
 Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C
- Typical Thermal Resistance 2.2°C/W Junction to Case
- UL Recognized File # E165989
- Mounting Torque: 5.0 in-lbs Maximum

		Maximum		Maximum
MCC	Device	Recurrent	Maximum	DC
Part Number	Marking	Peak	RMS	Blocking
		Reverse	Voltage	Voltage
		Voltage		
GBU6A	GBU6A	50V	35V	50V
GBU6B	GBU6B	100V	70V	100V
GBU6D	GBU6D	200V	140V	200V
GBU6G	GBU6G	400V	280V	400V
GBU6J	GBU6J	600V	420V	600V
GBU6K	GBU6K	800V	560V	800V
GBU6M	GBU6M	1000V	700V	1000V

Electrical Characteristics @ 25°C Unless Otherwise Specified

I _{F(AV)}	6 A	Tc = 100°C
I_{FSM}	175A	8.3ms, half sine
V_{F}	1.0V	I _{FM} =3A
		T _J = 25°C
12,	407420	(t<8.3ms)
Ιt	12/A S	(1.0.31118)
I_R	5 μΑ	T _{.1} = 25°C
	500uA	T _J = 125°C
СJ	50pF	Measured at
	•	1.0MHz, V _R =4.0V
	I _{FSM} V _F I ² t I _R	I _{FSM} 175A V _F 1.0V I ² t 127A ² S I _R 5 μA 500uA

Case Style 1.90 RADIUS

DIMENSIONS						
	INCHES		ММ			
DIM	MIN	MAX	MIN	MAX	NOTE	
Α	.860	.880	21.80	22.30		
В	.720	.740	18.30	18.80		
С	.130	.142	3.30	3.60		
D	.690	.717	17.50	18.20		
Е	.030	.039	0.76	1.00		
F	.018	.024	0.46	0.60		
G	.290	.310	7.40	7.90		
Н	.140	.160	3.50	4.10		
I	.065	.085	1.65	2.16		
J	.060	.096	1.52	2.45		
K	.077	.098	1.95	2.50		
L	.040	.050	1.02	1.27		
M	.190	.210	4.83	5.33		
N	7.0° TYPICAL					

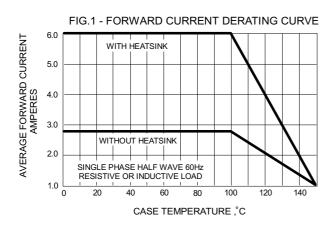
High Temperature Solder Exemption Applied, see EU Directive Annex Notes 7

Unit mounted on 50 x 50 x 1.6mm copper plate heatsink



GBU6A thru GBU6M

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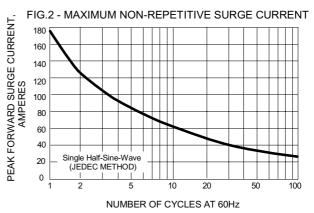


FIG.3 - TYPICAL JUNCTION CAPACITANCE

100

100

TJ = 25°C, f = 1MHz

1.0

1.0

REVERSE VOLTAGE , VOLTS

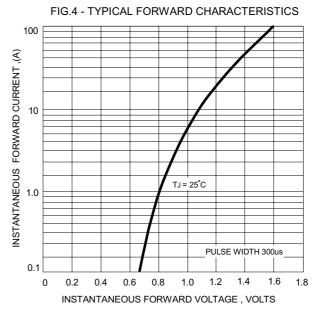
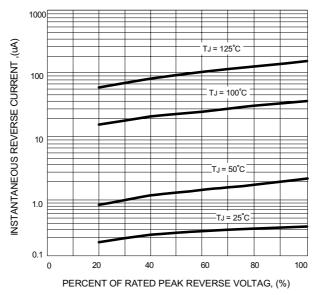


FIG.5 - TYPICAL REVERSE CHARACTERISTICS





Ordering Information

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

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

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