



E502650

Features

- Halogen Free. "Green" Device (Note 1)
- Glass Passivated Chip Junction
- High Surge Forward Current Capability
- Epoxy Meets UL 94 V-0 Flammability Rating
- Lead Free Finish/RoHS Compliant (Note 2)("P" Suffix Designates RoHS Compliant. See Ordering Information)

Maximum Ratings @ 25°C (Unless Otherwise Specified)

		Value							
Parameter	Symbol	GBU 4A	GBU 4B	GBU 4D	GBU 4G	GBU 4J	GBU 4K	GBU 4M	Unit
Peak Repetitive Reverse Voltage	V_{RRM}								
Working Peak Reverse Voltage	V_{RWM}	50	100	200	400	600	800	1000	V
DC Blocking Voltage	V_R								
RMS Reverse Voltage	V _{RMS}	35	70	140	280	420	560	700	٧
Average Rectified Forward Current	I _{F(AV)}	4 (T _C =135°C,With Heatsink) 2.3 (T _A =25°C,Without Heatsink)				Α			
Non-Repetitive Peak Surge Current @ 8.3ms Half Sine Wave	l				135				Α
Non-Repetitive Peak Surge Current @ 1ms Square Wave	I _{FSM} 270								
I²t Rating for Fusing @1ms≤t≤8.3ms	I ² t	75.6			A ² s				
Dielectric strength @Terminals to Case, AC 1 Minute	V _{dis}	2.5			KV				

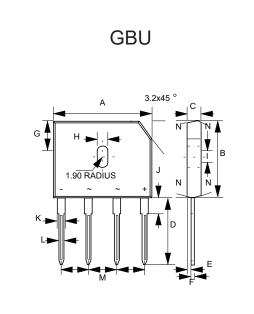
Part Number	Marking Code
GBU4A	GBU4A
GBU4B	GBU4B
GBU4D	GBU4D
GBU4G	GBU4G
GBU4J	GBU4J
GBU4K	GBU4K
GBU4M	GBU4M

Marking Diagram	Internal Structure		
MCC AL XXX XX - AC + Marking Code: XXXXX			

Note:

- 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.
- 2. High temperature solder exemption applied, see EU directive annex 7a.

4 Amp Bridge Rectifier 50 to 1000 Volts



DIMENSIONS						
DIM	INCHES		M	M	NOTE	
DIIVI	MIN	MAX	MIN	MAX	INOTE	
Α	0.860	0.880	21.80	22.30		
В	0.720	0.740	18.30	18.80		
С	0.130	0.142	3.30	3.60		
D	0.690	0.717	17.50	18.20		
Е	0.030	0.039	0.76	1.00		
F	0.018	0.024	0.46	0.60		
G	0.290	0.310	7.40	7.90		
Н	0.140	0.160	3.50	4.10		
I	0.065	0.085	1.65	2.16		
J	0.060	0.096	1.52	2.45		
K	0.077	0.098	1.95	2.50		
L	0.040	0.050	1.02	1.27		
М	0.190	0.210	4.83	5.33		
N	7.0° TYPICAL					

DIMENICIONIC



Thermal characteristics

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
T _J	Operating Junction Temperature Range		-55		150	°C
T _{stg}	Storage Temperature Range		-55		150	°C
Rth _(J-C)	Thermal Resistance from Junction to Case	Note 1		2		°C/W
Rth _(J-A)	Thermal Resistance from Junction to Ambient	Without Heatsink		25		°C/W

Note:

Mechanical Data

Recommended Mounting Torque: 5in·lbs

Electrical Characteristics @ 25°C Unless Otherwise Specified(Per Diode)

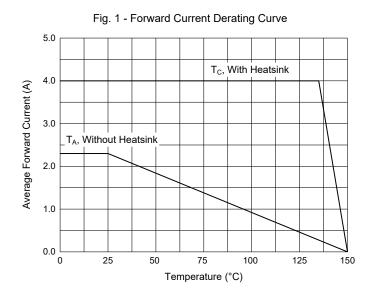
Parameter	Symbol	Test Conditions	Min	Тур	Max	Unit
Forward Voltage	V _F	I _F =2A;T _J =25°C			1.0	V
Reverse Current	I _R	at Rated $V_R;T_J=25^{\circ}C$ at Rated $V_R;T_J=125^{\circ}C$			5 100	uA
Junction Capacitance	СЈ	V _R =4V;f=1MHz;T _J =25°C		40		pF

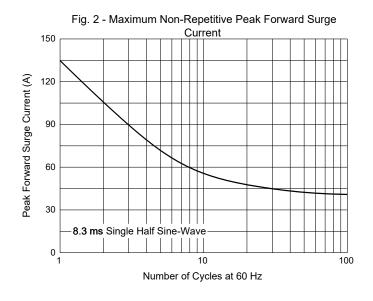
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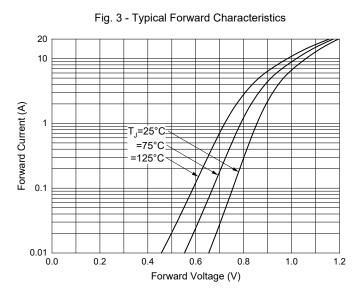
^{1.}Device mounted on 75mm x 45mm x 5.5mm Aluminum Plate Heatsink.

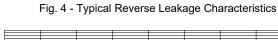


Curve Characteristics









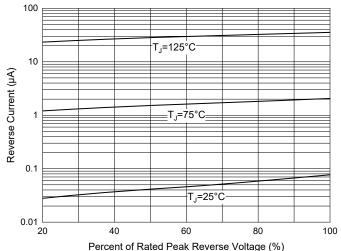
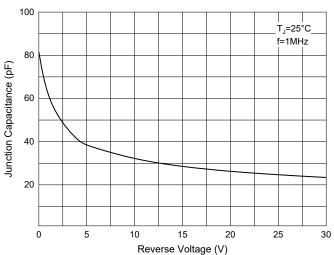


Fig. 5 - Typical Capacitance Characteristics





Ordering Information

Device	Packing			
Part Number-BP	Bulk:20pcs/Tube,1Kpcs/Box,2Kpcs/Carton			

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