



E502650

Features

- Halogen Free. "Green" Device (Note 1)
- Glass Passivated Chip Junction
- Low Forward Voltage Drop
- 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)

Parameter	Symbol	Va	11:4	
		GBU4JL	GBU4KL	Unit
Peak Repetitive Reverse Voltage	V_{RRM}			
Working Peak Reverse Voltage	V_{RWM}	600	800	V
DC Blocking Voltage	V_R			
RMS Reverse Voltage	V_{RMS}	420	560	V
Average Rectified Forward Current @ T _C =130°C (With Heatsink)		4		_ A
Average Rectified Forward Current @ T _A =25°C (Without Heatsink)	I _{F(AV)}	2.3		
Non-Repetitive Peak Surge Current @ 8.3ms Half Sine Wave		150		
Non-Repetitive Peak Surge Current @ 1ms Square Wave	I _{FSM}	300		_ A
l²t Rating for Fusing @1ms≤t≤8.3ms	I ² t	93		A ² s
Dielectric strength @Terminals to Case, AC 1 Minute	V _{dis}	2.5		KV

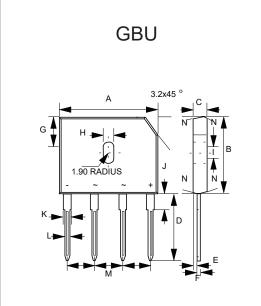
Part Number	Marking Code
GBU4JL	GBU4JL
GBU4KL	GBU4KL

Marking Diagram	Internal Structure		
MCC NXX XXX XXX - AC + Marking Code: XXXXXX			

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 Low VF Bridge Rectifiers 800 Volts



	DIMENSIONS					
DIM	INCHES		MM		NOTE	
DIIVI	MIN	MAX	MIN	MAX	NOIL	
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					



Thermal characteristics

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
TJ	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		2.2		°C/W
Rth _(J-A)	Thermal Resistance from Junction to Ambient	Without Heatsink		25		°C/W

Note:

Mechanical Data

Recommended Mounting Torque: 5 in-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 I _F =2A;T _J =125°C		0.83 0.70	0.89 0.74	V
Reverse Current	I _R	at Rated $V_R;T_J$ =25°C at Rated $V_R;T_J$ =125°C			5 200	μΑ
Junction Capacitance	СЈ	V _R =4V;f=1MHz;T _J =25°C		110		pF

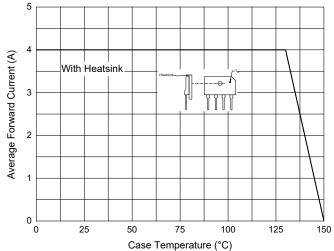
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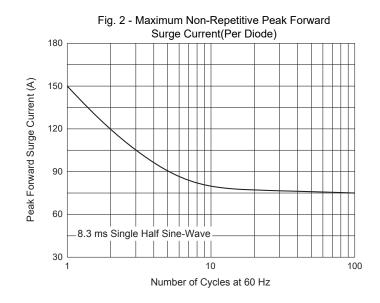
^{1.}Device mounted on 75mm x 45mm x 5.5mm Aluminum Plate Heatsink.

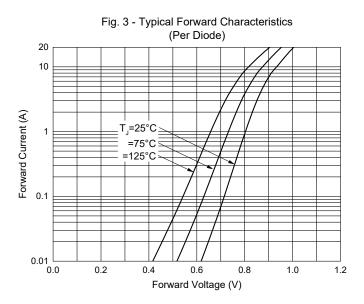


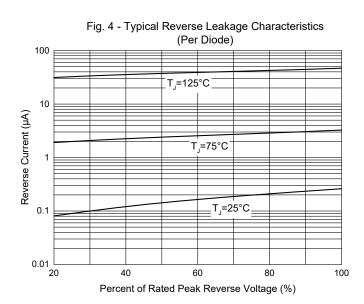
Curve Characteristics

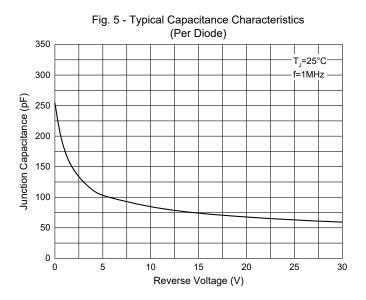
Fig. 1 - Forward Current Derating Curve













Ordering Information

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

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