



PRIMARY CHARACTERISTICS		
V_{RRM}	600V	
I _(AV)	8.0A	
V _F	0.89V	
l ² t	166A ² s	
T _{J,Max}	150°ℂ	

FEATURES

- Surge overload rating -200 amperes peak
- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique
- Moisture Sensitivity Level 1

GBU(R) PACKAGE • Body Marking : GBU8J: Logo Date Code Warking Code Positive Electrodes V:Product Line Code Y:1-digit BC year code, 4-2014,5-2015...etc

MECHANICAL DATA

Case : Molded plastic,GBU(R)

Polarity : Shown above

M:Month Code, Ex: 1-1,2-2,---10-O,11-N,12-D

:ULTRA LOW VF

- Terminals :Plated terminals, solderable per MIL-STD-750,Method 2026
- Epoxy: UL94-V0 rated flame retardant

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave ,60Hz, resistive or inductive load.

For capacitive load, derate current by 20%

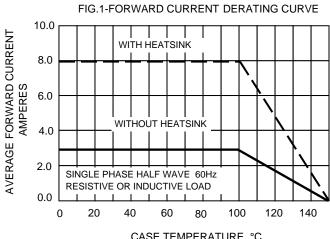
CHARACTERISTICS	SYMBOL	GBU8R Ë NF	UNIT
Maximum Recurrent Peak Reverse Voltage	VRRM	600	V
Maximum RMS Voltage	VRMS	420	V
Maximum DC Blocking Voltage	VDC	600	V
Maximum Average Forward (with heatsink Note 2) Rectified Current @ Tc=100℃ (without heatsink)	I(AV)	8.0 2.9	А
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)	IFSM	200	А
Maximum Forward Voltage at 4.0A DC	VF	0.89	V
Maximum DC Reverse Current @ TJ=25°C at Rated DC Blocking Voltage @ TJ=125°C	lR	10.0 500	μA
I ² t Rating for Fusing (t<8.3ms)	l ² t	166	A ² s
Typical Junction Capacitance Per Element (Note1)	CJ	60	pF
Typical Thermal Resistance	Rejc	2.2	°C/W
Operating Temperature Range	TJ	-55 to +150	$^{\circ}$
Storage Temperature Range	Tstg	-55 to +150	$^{\circ}$

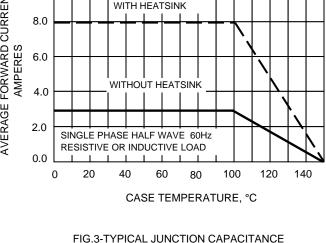
NOTES: 1.Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

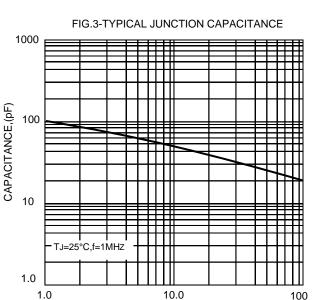
2.Device mounted on 75mm*75mm*1.6mm Cu plate heatsink.











REVERSE VOLTAGE, (VOLTS)

PEAK FORWARD SURGE CURRENT, 200 PULSE WIDTH 8.3ms SINGLE HALF-SINE-WAVE 150 (JEDEC METHOD) **AMPERES** 100 50 0

5

1

2

FIG.2-MAXIMUM NON-REPETITIVE SURGE CURRENT



10

NUMBER OF CYCLETS AT 60Hz

20

50

100

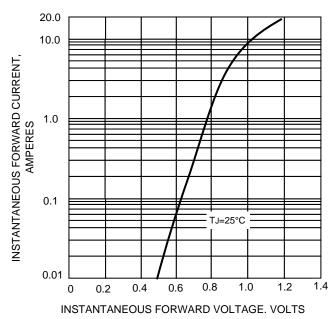
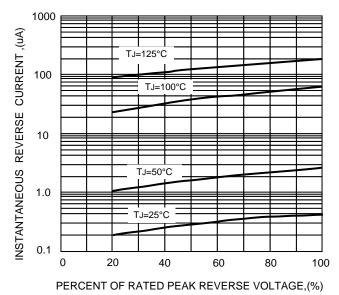


FIG.5-TYPICAL REVERSE CHARACTERISTICS

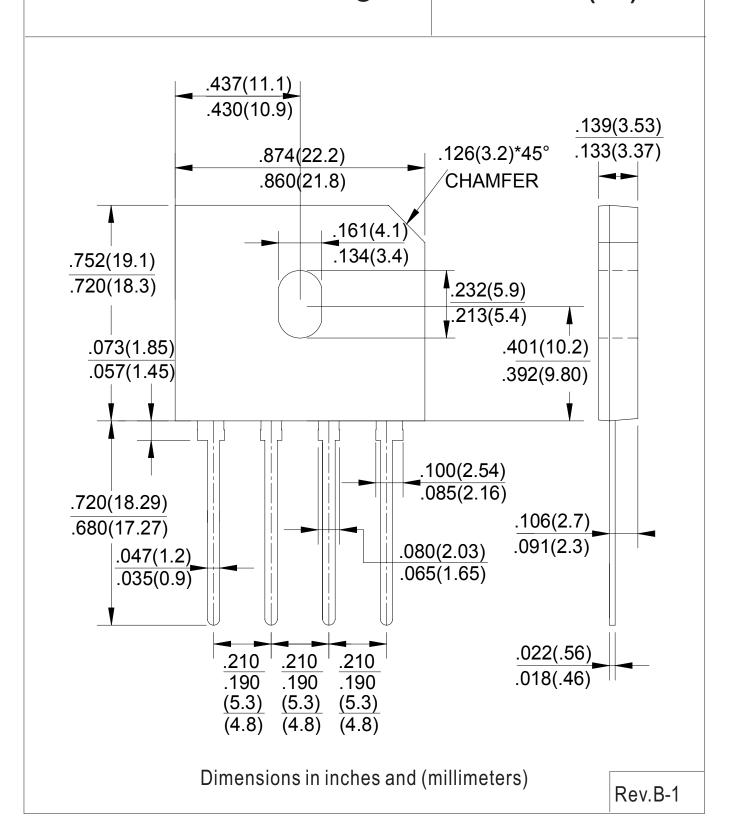






Outline Drawing

GBU(R)







Ordering Information:

Device PN	Packing
GBU8J-U1 ⁽¹⁾ G ⁽²⁾ -WS	Tube Packing:20pcs/Tube; 1000pcs/Box

Note: 1. Packing code: Empty is Tube Packing

2. RoHS product for packing code suffix "G", Halogen free product for packing code suffix "H".

Disclaimer

WILLAS reserves the right to make changes without notice to any product specification herein, to make corrections, modifications, enhancements or other changes. WILLAS or anyone on its behalf assumes no responsibility or liability for any errors or inaccuracies. Data sheet specifications and its information contained are intended to provide a product description only. "Typical" parameters which may be included on WILLAS data sheets and/ or specifications can and do vary in different applications and actual performance may vary over time. WILLAS does not assume any liability arising out of the application or use of any product or circuit.

This is the preliminary specification. WILLAS products are not designed, intended or authorized for use in medical, life-saving implant or other applications intended for life-sustaining or other related applications where a failure or malfunction of component or circuitry may directly or indirectly cause injury or threaten a life without expressed written approval of WILLAS. Customers using or selling WILLAS components for use in such applications do so at their own risk and shall agree to fully indemnify WILLAS Inc and its subsidiaries harmless against all claims, damages and expenditures.