



GBU1506-GBU1510

Product Summary

V _{RRM} (V)	I _F (A)	VF Max (V) @ IF = 7.5A	I _R Max (μA)
600, 800, 1000	15	1.1	5

Mechanical Data

- Package: GBU
- Package Material: Plastic Material, UL Flammability Classification 94V-0
- Terminals: Finish Matte Tin Plated Leads, Solderable per MIL-STD-202, Method 208 (3)
- Polarity Indicator: As Marked on The Body
- Weight: 4.0 grams (Approximate)
- Mounting Position: Any



Ordering Information (Note 4)

Part Number	Package	Packing		
		Qty.	Carrier	
GBU1506-TU	GBU	20pcs	Tube	
GBU1508-TU	GBU	20pcs	Tube	
GBU1510-TU	GBU	20pcs	Tube	

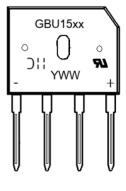
Notes: 1. EU Directive 2002/95/EC (RoHS), 2011/65/EU (RoHS 2) & 2015/863/EU (RoHS 3) compliant. All applicable RoHS exemptions applied.

2. See https://www.diodes.com/quality/lead-free/ for more information about Diodes Incorporated's definitions of Halogen- and Antimony-free, "Green" and Lead-free.

3. Halogen- and Antimony-free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

4. For packaging details, go to our website at https://www.diodes.com/design/support/packaging/diodes-packaging/.

Marking Information



GBU15xx = Product Type Marking Code)'' = Manufacturer's Code Marking YWW = Date Code Marking Y = Last Digit of Year (ex: 3 = 2023) WW = Week Code (01 to 53)

15A STANDARD RECOVERY BRIDGE RECTIFIER

Features

- Glass Passivated Die Construction
- Rating to 1000V PRV
- Ideal for Printed Circuit Board
- Reliable Low-Cost Construction Utilizing Molded Plastic Technique
- UL Recognized File # E94661
- Lead-Free Finish; RoHS Compliant (Notes 1 & 2)
- Halogen and Antimony Free. "Green" Device (Note 3)
- For automotive applications requiring specific change control (i.e. parts qualified to AEC-Q100/101/104/200, PPAP capable, and manufactured in IATF 16949 certified facilities), please <u>contact us</u> or your local Diodes representative. <u>https://www.diodes.com/quality/product-definitions/</u>





Maximum Ratings (@T_A = +25°C, unless otherwise specified.)

Characteristic	Symbol	GBU1506	GBU1508	GBU1510	Unit
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	600	800	1000	V
Maximum DC Blocking Voltage	VDC	600	800	1000	V
Average Rectified Output CurrentWith Heatsink@Tc = +100°CWithout Heatsink	I _{F(AV)}		15 3.2		А
Peak Forward Surge Current 8.3ms Single Half Sine- Wave $T_J = +25^{\circ}C$	IFSM		200		А
$I^{2}t$ Rating for Fusing (t = 8.3ms)	l ² t		166		A ² s
Mounting Torque (Recommended Torque: 0.5 N.m)	T _{OR}		0.8		N.m
Operating Junction Temperature Range	TJ, TSTG		-55 to +150		°C

Electrical Characteristics (@T_A = +25°C, unless otherwise specified.)

Characteristic	Test Condition	Symbol	Max.	Unit
Forward Voltage	I _F = 7.5A T _J = +25	°C V _F	1.1	V
Leakage Current	V_R at Rated $T_J = +25$ $T_J = +12$	°C 5°C IR	5 500	μΑ
Typical Junction Capacitance (Note 5)		Ст	50	pF

Thermal Characteristics

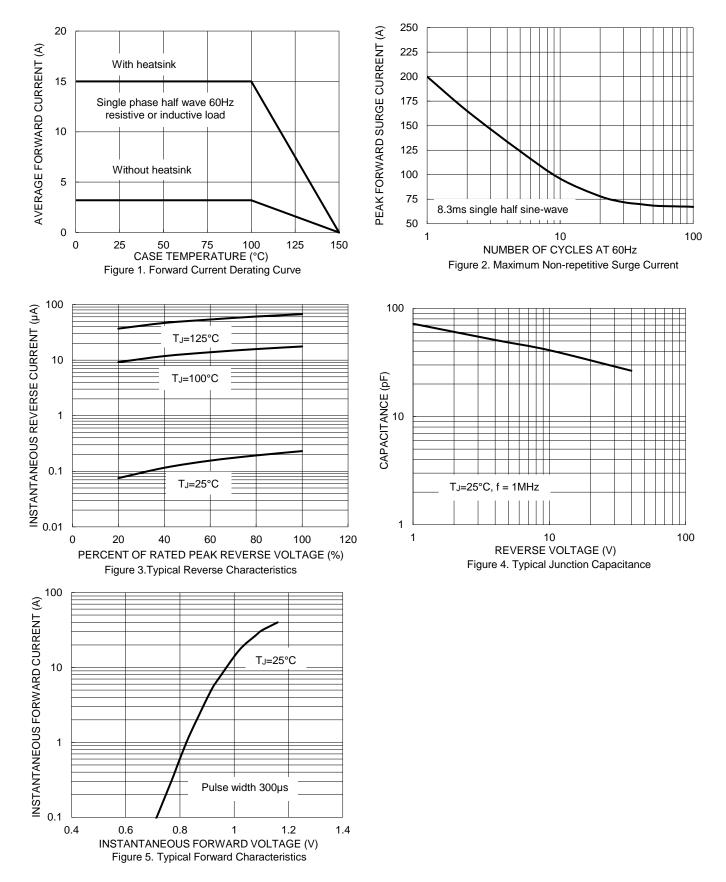
Characteristic	Symbol	Тур.	Unit
Typical Thermal Resistance (Note 6)	Rejc	2	°C/W

 Notes:
 5. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

 6. Device mounted on 200mm * 200mm * 5mm AL plate heatsink.



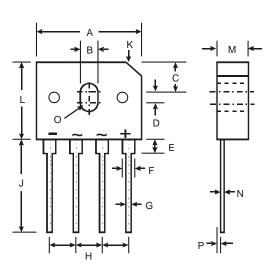
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Package Outline Dimensions

Please see http://www.diodes.com/package-outlines.html for the latest version.



GBU

GBU				
Dim	Min	Max		
Α	21.8	22.3		
В	3.5	4.1		
С	7.4	7.9		
D	1.65	2.16		
ш	2.25	2.75		
F	1.95	2.35		
G	1.02	1.27		
Н	4.83	5.33		
J	17.5	18.0		
κ	3.2 >	3.2 X 45°		
L	18.3	18.8		
М	3.30	3.56		
N	0.46	0.56		
0	1.90R			
Р	0.76	1.0		
All Dimensions in mm				

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