



Features

Glass Passivated Die Construction Low-Forward Voltage Drop Ideal for Printed Circuit Board High Surge Current Capability UL Recognized File # E95060

Lead-Free Finish; RoHS Compliant (Notes 1 & 2)

contact us or your local Diodes representative.

https://www.diodes.com/quality/product-definitions/

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

35A LOW VF BRIDGE RECTIFIER

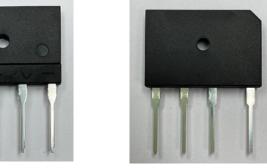
Product Summary

VRRM (V)	I _F (A)	V _F Max (V) @ I _F = 17.5A	I _R Max (μA)	
600	35	0.91	10	

Mechanical Data

- Package: GBJ
- Package Material: Plastic Material, "Green" Molding Compound UL Flammability Classification Rating 94V-0
- Terminals: Finish Matte Tin Plated Leads, Solderable per MIL-STD-202, Method 208 @3
- Polarity Indicator: Symbol Molded on Body
- Weight: 6.60 grams (Approximate)

GBJ







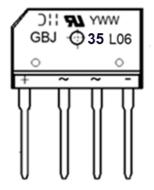
Ordering Information (Note 4)

Part Number	Package	Packing		
Fait Number	Fackage	Qty.	Carrier	
GBJ35L06	GBJ	15	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



GBJ35L06 = Product Type Marking Code Oll = Manufacturer's Marking YWW = Date Code Marking Y = Last Digit of Year (ex: 3 = 2023)WW = Week Code (01 to 53)



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

Characteristic	Symbol	Value	Unit
Maximum Repetitive Peak Reverse Voltage	VRRM	600	V
Average Rectified Output Current With Heatsink @ T _J = +150°C Without Heatsink	I _{F(AV)}	35 5	Α
Peak Forward Surge Current 8.3ms Single Half Sine Superimposed On Rated Load	1	400	А
Peak Forward Surge Current 1.0ms Single Half Sine Superimposed On Rated Load	- IFSM	800	А
I ² t Rating for Fusing (t = 8.3ms)	l ² t	664	A ² s
Operating Temperature Range	TJ	-55 to +150	°C
Storage Temperature Range	T _{STG}	-55 to +150	°C

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

Characteristic	Test C	Conditions	Symbol	Min	Тур.	Max	Unit
Breakdown Voltage	I _R = 10μA	T _J = +25°C	VB	600	_	_	V
Forward Voltage	I _F = 17.5A	T _J = +25°C	VF	_	0.875	0.91	V
Leakage Current	V _R = 600V	T _J = +25°C T _J = +125°C	lR	_	_	10 500	μΑ
Typical Junction Capacitance (Note 5)			Ст		270		pF

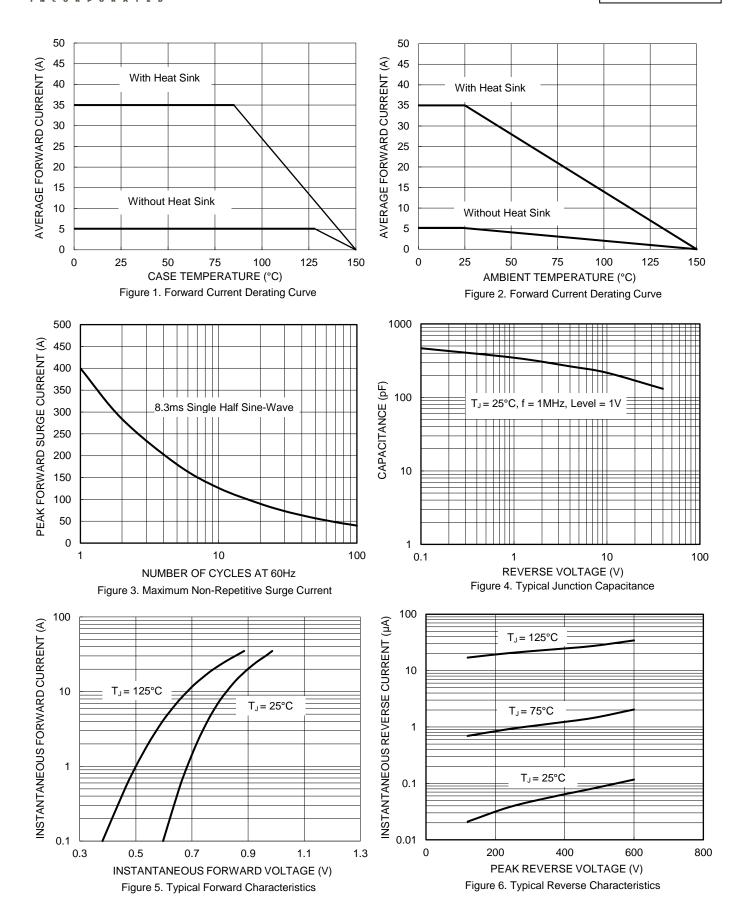
Thermal Characteristics

Characteristic	Symbol	Тур.	Unit
Typical Thermal Resistance (Without Heatsink)	R _θ JC R _θ JL R _θ JA	4 7.5 23	°C/W
Typical Thermal Resistance (Notes 6 & 7)	Røjc Røjl Røja	1.5 2 2.5	°C/W

Notes:

- 5. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
- Thermal resistance junction to case, lead and ambient in accordance with JESD-51.
 Device mounted on cooling heat sink.



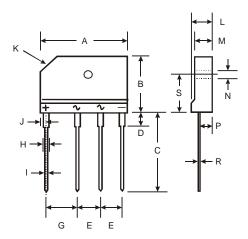




Package Outline Dimensions

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

GBJ



GBJ				
Dim	Min	Max		
Α	29.70	30.30		
В	19.70	20.30		
С	17.00	18.00		
D	3.80	4.20		
E	7.30	7.70		
G	9.80	10.20		
Η	2.00	2.40		
I	0.90	1.10		
7	2.30	2.70		
K	3.0 X 45°			
L	4.40	4.80		
M	3.40	3.80		
N	3.10	3.40		
Р	2.50	2.90		
R	0.60	0.80		
S	10.80	11.20		
All Dimensions in mm				



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