



Features

Glass Passivated Die Construction Low Forward Voltage Drop Ideal for Printed Circuit Board High Surge Current Capability UL Recognized File # E94661

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

contact us or your local Diodes representative.

https://www.diodes.com/guality/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

GBJ25L06

25A LOW VF BRIDGE RECTIFIER

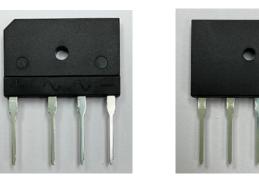
Product Summary

Vrrm ((V)	IF (A)	V _F Max (V) @ I _F = 12.5A	I _R Max (µA)
600		25	0.92	10

Mechanical Data

- Package: GBJ
- Package Material: Plastic Material, UL Flammability Classification 94V-0
- Terminals: Finish Matte Tin Plated Leads, Solderable per MIL-STD-202, Method 208 (2)
- Polarity Indicator: Symbol Molded on Body
- Weight: 6.60 grams (Approximate)

GBJ



Ordering Information (Note 4)

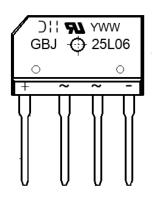
Part Number	Qualification	Package		king	
	Quantication	Package	Qty.	Carrier	
GBJ25L06-TU	GBJ25L06-TU Commercial		15	Tube	

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



GBJ25L06= Product Type Marking Code):'= Manufacturer's Code Marking YWW = Date Code Marking Y = Last Digit of Year (ex: 2 = 2022) WW = Week Code (01 to 53)

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

Characteristic Maximum Repetitive Peak Reverse Voltage		Symbol	Value	Unit
		V _{RRM}	600	V
Average Rectified Output Current @ Tc = +115°C	With Heatsink Without Heatsink,	IF(AV)	25 4.5	A
Peak Forward Surge Current 8.3ms Single Half Sine $T_J = +25^{\circ}C$		I _{FSM}	320	А
I ² t Rating for Fusing (t = 8.3ms)		l ² t	425	A ² s
Operating Temperature Range		TJ	-40 to +150	°C
Storage Temperature Range		T _{STG}	-55 to +150	°C

Electrical Characteristics

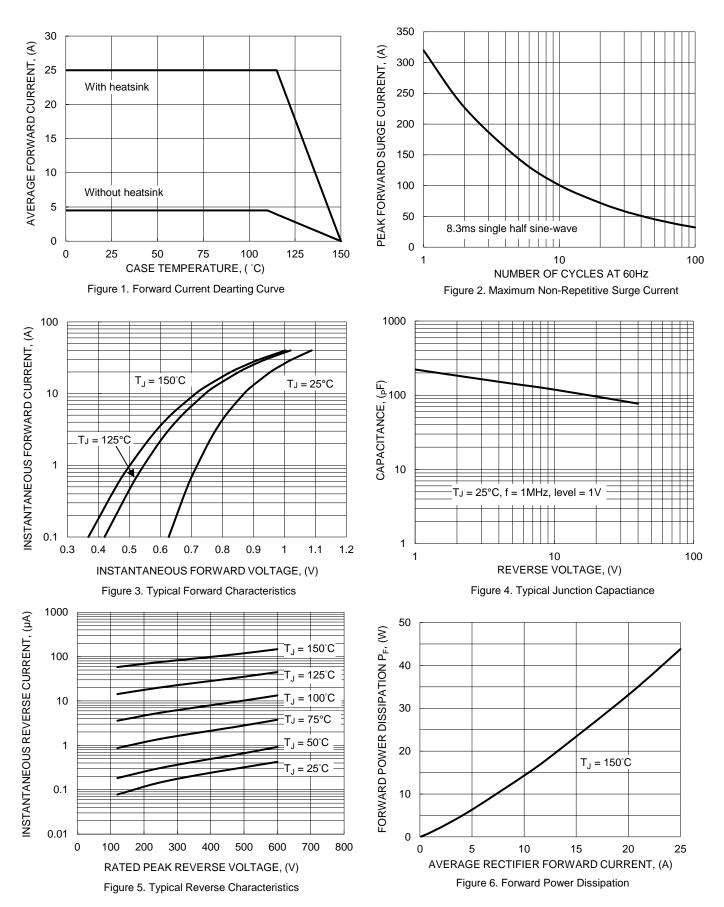
Characteristic	Test Conditions	Symbol	Min	Тур	Max	Unit
Breakdown Voltage	I _R = 10µA T _J = +25°C	VB	600	—	—	V
Forward Voltage	IF = 12.5A TJ = +25°C	VF	—	0.87	0.92	V
Leakage Current	V _R = 600V T _J = +25°C	IR			10	μA
Reverse Recovery Time I _F = 0.1A, I _R = 0.1 per Diode		t _{RR}		3		μs
Typical Junction Capacitance (Note 5)		CJ		150		pF

Thermal Characteristics

Characteristic	Symbol	Тур	Unit
Typical Thermal Resistance (Note 6)	R _θ JC R _θ JL	0.8 5	°C/W

 Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
Device mounted on 314mm x 314mm x 20mm AI plate heatsink. Notes:



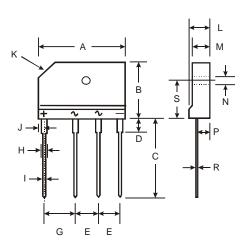




Package Outline Dimensions

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			
н	2.00	2.40			
I	0.90	1.10			
J	2.30	2.70			
к	3.0 X 45°				
L	4.40 4.80				
м	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 Din	All Dimensions in mm				