



GBJ25KH

Product Summary

Vrrm (V)	IF (A)	V _F Max (V) @ I _F = 12.5A	IR Max (µA)	
800	25	1.05	10	

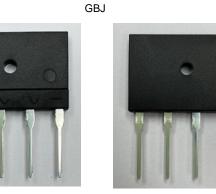
Mechanical Data

- Package: GBJ
- Package Material: Plastic Material, UL Flammability Classification 94V-0 (No Br. Sb, Cl)
- 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)

Features

- Glass Passivated Die Construction
- Rating to 800V PRV
- Ideal For Printed Circuit Board
- Reliable Low Cost Construction Utilizing Molded Plastic
- 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>

25A STANDARD RECOVERY BRIDGE RECTIFIER



Ordering Information (Note 4)

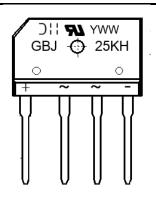
Part Number	Qualification	Deekana	Packing	
		Package	Qty.	Carrier
GBJ25KH-TU	Commercial	GBJ	15	Tube

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



GBJ25KH = 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		Symbol	Value	Unit
Maximum Repetitive Peak Reverse Voltage		Vrrm	800	V
Average Rectified Output Current	With Heatsink Without Heatsink	lf(AV)	25 3.6	А
Peak Forward Surge Current 8.3ms Single Half Sine Wave Superimposed on Rated Load	TJ = +25°C TJ = +125°C	IFSM	350 280	А
Peak Forward Surge Current 1.0ms Single Half Sine Wave Superimposed on Rated Load	TJ = +25°C TJ = +125°C	I _{FSM}	700 560	А
I ² t Rating for Fusing (t = 8.3ms)		l ² t	508	A ² s
Operating Temperature Range		TJ	-40 to +150	°C
Storage Temperature Range		TSTG	-55 to +175	°C

Electrical Characteristics

Characteristic	Test Conditions		Symbol	Value	Unit
Forward Voltage	IF = 12.5A	TJ = +25°C	VF	1.05	V
Leakage Current	V _R = 800V	TJ = +25°C	IR	10	μΑ
Typical Junction Capacitance (Note 5)		CJ	93	pF	

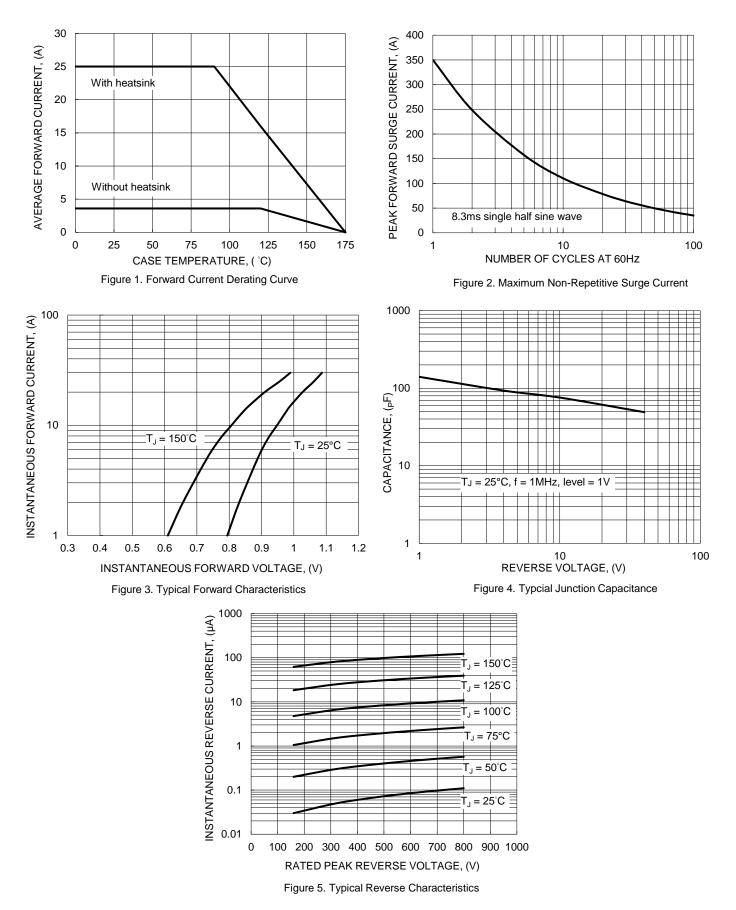
Thermal Characteristics

Characteristic	Symbol	Тур	Unit
Typical Thermal Resistance (Note 6)	R₀jc R₀j∟	1.6 1.0	°C/W

Notes:

Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
Thermal resistance junction to case and lead, device mounted on heatsink.



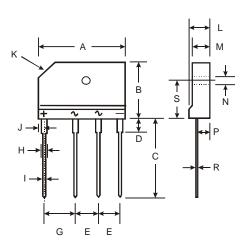




Package Outline Dimensions

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 Dir	All Dimensions in mm				



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