

GBU404 Datasheet

DiGi Electronics Part Number

Manufacturer Product Number

Manufacturer

Description

Detailed Description

GBU404-DG

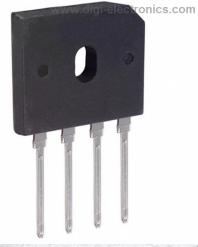
GBU404

gh Hole GBU

Diodes Incorporated

BRIDGE RECT 1PHASE 400V 4A GBU

Bridge Rectifier Single Phase Standard 400 V Throu



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Purchase and inquiry

Manufacturer Product Number:	Manufacturer:
GBU404	Diodes Incorporated
Series:	Product Status:
	Active
Diode Type:	Technology:
Single Phase	Standard
Voltage - Peak Reverse (Max):	Current - Average Rectified (Io):
400 V	4 A
Voltage - Forward (Vf) (Max) @ If:	Current - Reverse Leakage @ Vr:
1 V @ 2 A	5 µA @ 400 V
Operating Temperature:	Mounting Type:
-55°C ~ 150°C (TJ)	Through Hole
Package / Case:	Supplier Device Package:
4-SIP, GBU	GBU
Base Product Number:	
GBU404	

Environmental & Export classification

RoHS Status:	Moisture Sensitivity Level (MSL):
ROHS3 Compliant	1 (Unlimited)
REACH Status:	ECCN:
REACH Unaffected	EAR99
HTSUS:	
8541.10.0080	



GBU4005 - GBU410

4.0A GLASS PASSIVATED BRIDGE RECTIFIER

Features

- Glass Passivated Die Construction
- High Case Dielectric Strength of 1500VRMS
- Low Reverse Leakage Current
- Surge Overload Rating to 150A Peak
- Ideal for Printed Circuit Board Applications
- UL Listed Under Recognized Component Index, File Number E94661
- Lead Free Finish, RoHS Compliant (Note 4)

Mechanical Data

- Case: GBU
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0
- Moisture Sensitivity: Level 1 per J-STD-020C
- Terminals: Plated Leads. Solderable per MIL-STD-202, Method 208 (23)
- Lead Free Plating (Tin Finish)
- Polarity: Marked on Body
- Mounting: Through Hole for #6 Screw
- Mounting Torque: 5.0 Inch-pounds Maximum
- Ordering Information: See Last Page
- Marking: Date Code and Type Number
- Weight: 6.6 grams (approximate)

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

 Maximum Ratings and Electrical Characteristics
 @ T_A = 25°C unless otherwise specified

 Single phase, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

Characteristic	Symbol	GBU 4005	GBU 401	GBU 402	GBU 404	GBU 406	GBU 408	GBU 410	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	50	100	200	400	600	800	1000	V
RMS Reverse Voltage	V _{R(RMS)}	35	70	140	280	420	560	700	V
Average Forward Rectified Current (Note 1) @ T _C = 100°C	I _(AV)	4.0		Α					
Non-Repetitive Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	150		A					
Forward Voltage (per element) @ I _F = 2.0A	V _{FM}	1.0		V					
Peak Reverse Current@ $T_C = 25^{\circ}C$ at Rated DC Blocking Voltage@ $T_C = 125^{\circ}C$	I _R	5.0 50		μA					
I ² t Rating for Fusing (Note 2)	l ² t	93		A ² s					
Typical Total Capacitance per Element (Note 3)	Ст	80		pF					
Typical Thermal Resistance Junction to Case (Note 1)		2.2					°C/W		
Operating and Storage Temperature Range	Tj, TSTG	-55 to +150		°C					

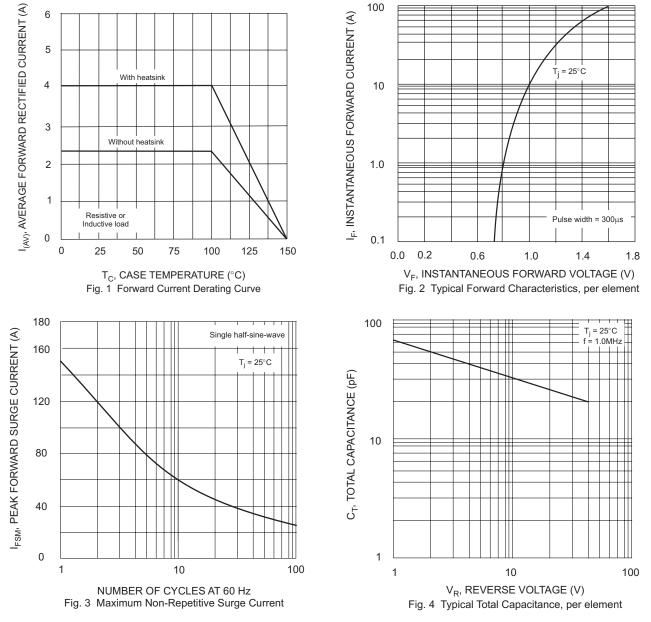
Notes: 1. Unit mounted on 50mm x 50mm x 1.6mm copper plate heatsink.

2. Non-repetitive, for t > 1.0ms and < 8.3ms.

3. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

4. RoHS revision 13.2.2003. Glass and High Temperature Solder Exemptions Applied, see EU Directive Annex Notes 5 and 7.





Ordering Information (Note 5)

Device	Packaging	Shipping
GBU4005	GBU	20/Tube
GBU401	GBU	20/Tube
GBU402	GBU	20/Tube
GBU404	GBU	20/Tube
GBU406	GBU	20/Tube
GBU408	GBU	20/Tube
GBU410	GBU	20/Tube

Notes: 5. For packaging details, visit our website at http://www.diodes.com/datasheets/ap02008.pdf



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