



GBL410

4A GLASS PASSIVATED BRIDGE RECTIFIER

Features

- Glass Passivated Die Construction
- Rating to 1,000V PRV
- Low Reverse Leakage Current
- Surge Overload Rating to 150A Peak
- Ideal for Printed Circuit Board Applications
- Lead-Free Finish; RoHS Compliant (Notes 1 & 2)

Mechanical Data

- Case: GBL
- Case Material: Molded Plastic. UL Flammability Classification
- Moisture Sensitivity: Level 1 per J-STD-020
- Terminals: Matte Tin Finish. Solderable per MIL-STD 202, Method
- Polarity: Marked on Body See "Marking Information" Below
- Marking: Date Code and Type Number
- Weight: 2.52 grams (Approximate)

Ordering Information (Note 3)

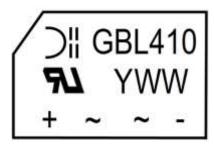
Part Number	Qualification	Case	Packaging
GBL410	Commercial	GBL	20/Tube

Notes:

- 1. EU Directive 2002/95/EC (RoHS) & 2011/65/EU (RoHS 2) compliant. All applicable RoHS exemptions applied.
- 2. See http://www.diodes.com for more information about Diodes Incorporated's definitions of Halogen- and Antimony-free, "Green" and Lead-free.
- 3. For packaging details, go to our website at http://www.diodes.com.

Marking Information

GBL



GBL410 = Product Type Marking Code II = Manufacturers' Code Marking YWW = Date Code Marking Y = Last Digit of Year (ex: 7 = 2017) WW = Week Code (01 - 53)

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Maximum Ratings and Electrical Characteristics (@TA = +25°C, unless otherwise specified.)

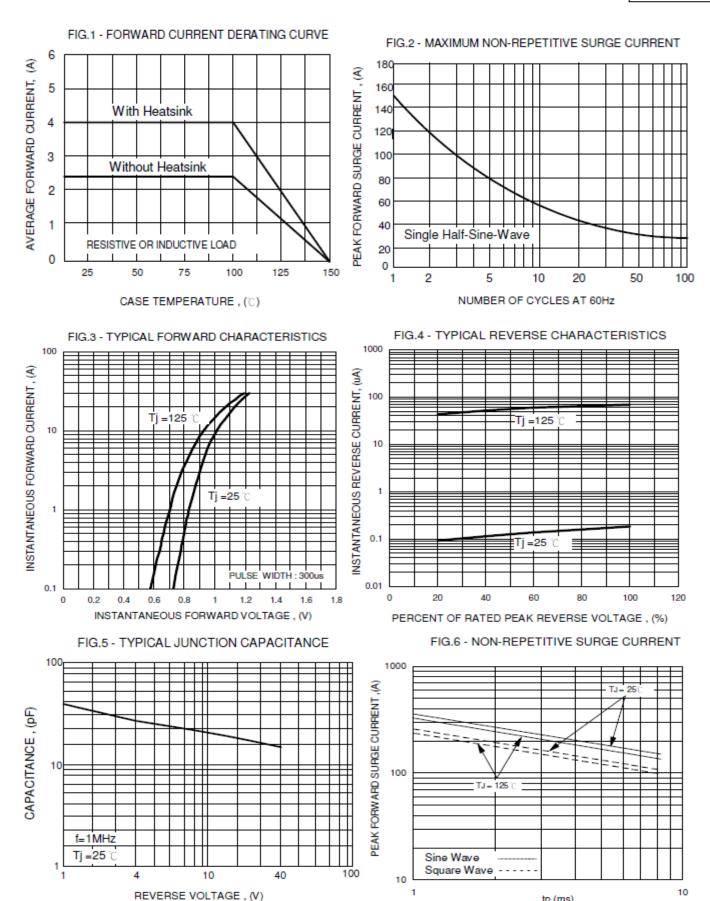
Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic		Symbol	Value	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage		V _{RRM} V _{RWM} V _R	1,000	V
RMS Reverse Voltage		V _{R(RMS)}	700	V
Average Forward Rectified Current (Note 4)	With Heatsink Without Heatsink	I _(AV)	4.0 2.4	Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load		I _{FSM}	150	Α
Forward Voltage (Per Element) @ $I_F = 2$.		V _{FM}	1.0	V
Peak Reverse Current at Rated DC Blocking Vol	age @T _J = +25°C @TJ=+125°C	I _R	5 500	μΑ
I ² t Rating for Fusing (Note 5)		l ² t	93	A ² s
Typical Total Capacitance per Element (Note 6)		C _T	35	pF
Typical Thermal Resistance Junction to Case (No	ote 4)	R _{0JC}	4.2	°C/W
Typical Thermal Resistance Junction to Lead		R _{0JL}	4.0	°C/W
Typical Thermal Resistance Junction to Ambient	(Note 4)	R _{θJA}	10	°C/W
Operating and Storage Temperature Range		T _J , T _{STG}	-55 to +150	°C

Notes:

- Unit mounted on 50x50x1.6mm Cu plate heatsink.
 Non-repetitive, for t > 3.0ms and < 8.3ms.
 Measured at 1.0MHz and applied reverse voltage of 4.0V DC.





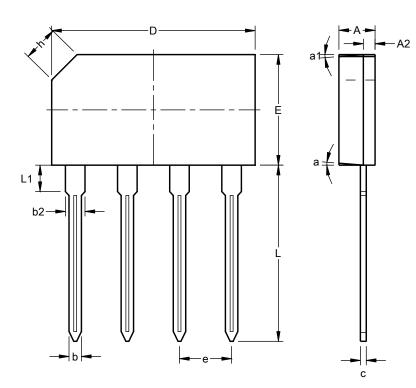
tp,(ms)



Package Outline Dimensions

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

GBL



GBL					
Dim	Min	Max	Тур		
Α	3.30	3.70			
A2	0.80	1.20			
b	1.02	1.27			
b2	1.95	2.35			
С	0.40	0.60			
D	20.20	20.80			
Е	10.70	11.30			
е	4.83	5.33			
h			0.35		
L	17.50	18.00			
L1	2.30	2.70			
а		5°			
a1		5°			
All Dimensions in mm					



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>>Diodes Incorporated(达迩科技(美台))