

# **GBL4005 THRU GBL410**

## 4A Miniature Glass Passivated Single-Phase Bridge Rectifiers

### ■ Features

- Recommended for non-automatic applications.
- Ideal for & save space on printed circuit board.
- Applicable for automatic insertion.
- Reliable low cost construction utilizing molded plastic technology results in inexpensive product.
- Glass passivated chip junctions.
- Suffix "G" indicates Halogen-free part, ex.GBL4005G.
- · Lead-free parts meet RoHS requirments.

### ■ Mechanical data

• Epoxy:UL94-V0 rated flame retardant

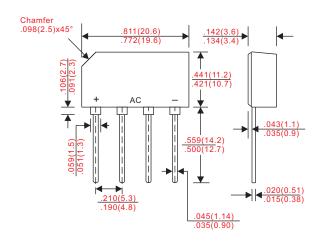
· Case: Molded plastic, GBL

 Terminals: Solder plated, solderable per MIL-STD-750, Method 2026

Polarity: marked on bodyWeight: Approximated 2.0 gram

#### Outline

GBL



Dimensions in inches and (millimeters)

## ■ Maximum ratings and electrical characteristics

Rating at  $25^{\circ}$ C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Parameter	Conditions	Symbol	MIN.	TYP.	MAX.	UNIT
Forward rectified current	$T_A = 50^{\circ}C$	Io			4.0	Α
Forward surge current	8.3ms single half sine-wave superimposed on rate load (JEDEC method)	I <sub>FSM</sub>			125	А
Daviera aurorat	$V_R = V_{RRM} T_A = 25^{\circ}C$				10	uA
Reverse current	$V_R = V_{RRM} T_A = 100^{\circ}C$	I <sub>R</sub>			1000	
Storage temperature		T <sub>STG</sub>	-55		+150	°C

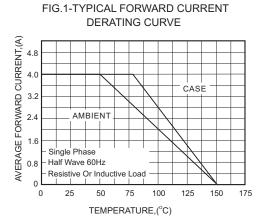
Symbol	Marking code	Max. repetitive peak reverse voltage V <sub>RRM</sub> (V)	Max. RMS voltage V <sub>RMS</sub> (V)	Max. DC blocking voltage $V_{\scriptscriptstyle R}\left(V\right)$	Max. forward voltage @4A, $T_A = 25^{\circ}C$ $V_F(V)$	Operating temperature $T_J$ (°C)
GBL4005	GBL005	50	35	50		
GBL401	GBL01	100	70	100		
GBL402	GBL02	200	140	200		
GBL404	GBL04	400	280	400	1.1	-55 ~ +150
GBL406	GBL06	600	420	600		
GBL408	GBL08	800	560	800		
GBL410	GBL10	1000	700	1000		

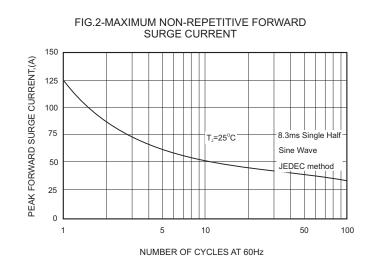
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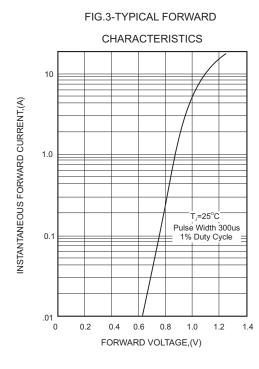
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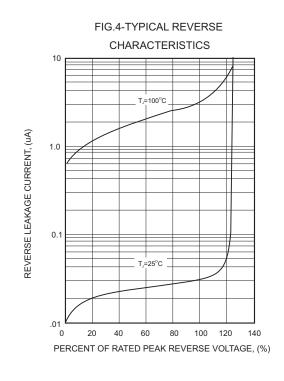
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## ■ Rating and characteristic curves









Revision : C



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