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

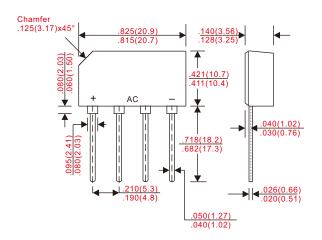
· Case: Molded plastic, GBL

 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° 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 _{FSM}			150	А
D	$V_R = V_{RRM} T_A = 25^{\circ}C$				10	uA
Reverse current	$V_R = V_{RRM} T_A = 100^{\circ}C$	I _R			1000	
Storage temperature		T _{STG}	-55		+150	°C

Symbol	Marking code	Max. repetitive peak reverse voltage V _{RRM} (V)	Max. RMS voltage V _{RMS} (V)	Max. DC blocking voltage $V_{_{\mathbb{R}}}(V)$	Max. forward voltage @2A, $T_A = 25^{\circ}C$ $V_F(V)$	Operating Junction 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		

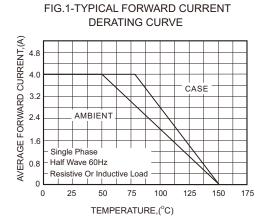
Document ID : DS-21B04 Revised Date : 2018/04/11

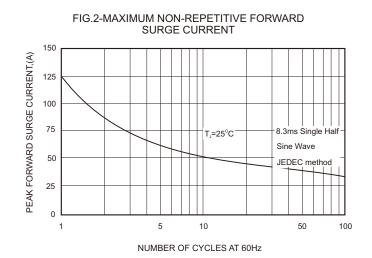
Revision: C2

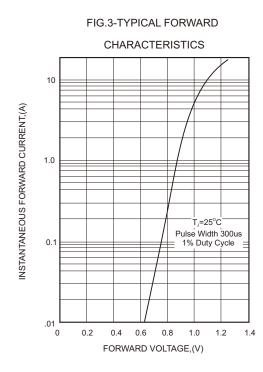


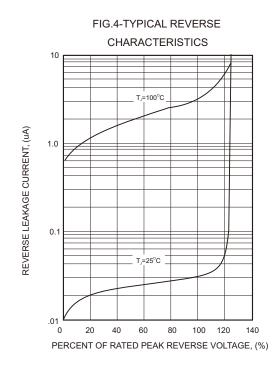
4A Miniature Glass Passivated Single-Phase Bridge Rectifiers

■ Rating and characteristic curves









Document ID: DS-21B04 Revised Date: 2018/04/11

Revision: C2



GBL4005 THRU GBL410

4A Miniature Glass Passivated Single-Phase Bridge Rectifiers

- CITC reserves the right to make changes to this document and its products and specifications at any time without notice.
- Customers should obtain and confirm the latest product information and specifications before final design, purchase or use.
- CITC makes no warranty, representation or guarantee regarding the suitability of its products for any particular purpose, nor does CITC assume any liability for application assistance or customer product design.
- CITC does not warrant or accept any liability with products which are purchased or used for any unintended or unauthorized application.
- No license is granted by implication or otherwise under any intellectual property rights of CITC.
- CITC products are not authorized for use as critical components in life support devices or systems without express written approval of CITC.

http://www.citcorp.com.tw/

Tel:886-3-5600628

Fax:886-3-5600636

Add:Rm. 3, 2F., No.32, Taiyuan St., Zhubei City, Hsinchu County 302, Taiwan (R.O.C.)

Document ID: DS-21B04 Revised Date: 2018/04/11

Revision: C2