GBL202 THRU GBL208

Chip Integration Technology Corporation 2A 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:UL94V-0 rated flame retardant

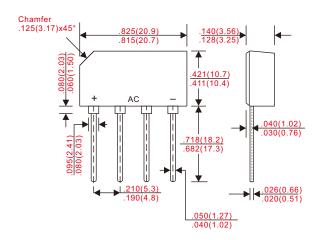
· Case: Molded plastic, GBL

 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		UNIT	
Maximum Average Forward Rectified Output Current @T _A =25°C		I _o	2	А	
Forward Surge Current	8.3ms single half sine-wave superimposed on rate load (JEDEC method)	I _{FSM}	80	А	
Rating for fusing (t<8.3ms)		l ² t	27	A ² sec	
Storage temperature Range		T _{stg}	-55 ~ +150	°C	
Typical thermal resistance per leg		RejA	40	°C/W	
		Rejc	12		
Maxmum Reverse Current @T _A =25°C			5	uA	
at Rated D.C Blocking Voltage @T _A =125°C		I _R	300		

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°C V _F (V)	Operating Junction temperature T _J (°C)
GBL202	GBL22	200	140	200		
GBL206	GBL26	600	420	600	1.1	-55 ~ +150
GBL208	GBL28	800	560	800		

Document ID: DS-21B48 Revised Date: 2016/08/18

Revision: C



Chip Integration Technology Corporation 2A Glass Passivated Single-Phase Bridge Rectifiers

■ Rating and characteristic curves

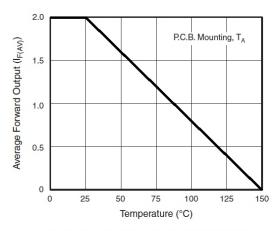


Fig. 1 - Derating Curve Output Rectified Current

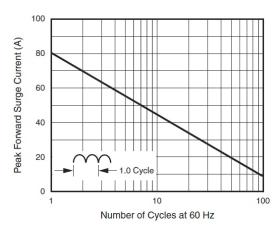


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current Per Diode

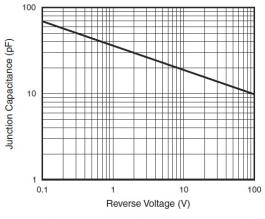


Fig. 5 - Typical Junction Capacitance Per Diode

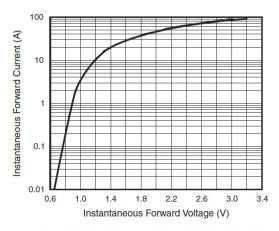


Fig. 3 - Typical Forward Characteristics Per Diode

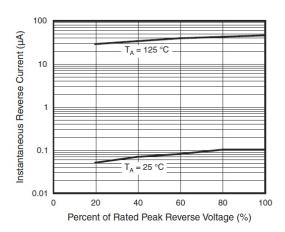


Fig. 4 - Typical Reverse Characteristics Per Diode

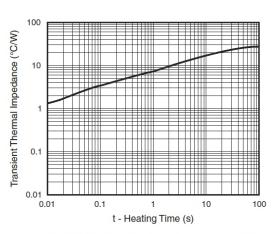


Fig. 6 - Typical Transient Thermal Impedance

Document ID : DS-21B48 Revised Date : 2016/08/18

Revision: C



GBL202 THRU GBL208

Chip Integration Technology Corporation 2A 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-21B48 Revised Date: 2016/08/18

Revision: C