2A Miniature Glass Passivated Single-Phase Bridge Rectifiers

■ Features

- Surge overload ratings to 50 amperes peak.
- 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.DF2005G.
- · Lead-free parts meet RoHS requirments.
- UL recognized file # E321971

■ Mechanical data

• Epoxy:UL94-V0 rated flame retardant

· Case: Molded plastic, DF

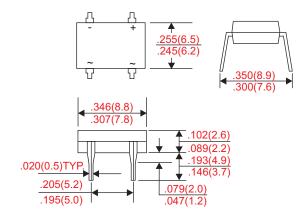
 Terminals: Solder plated, solderable per MIL-STD-750, Method 2026

Polarity: marked on bodyMounting Position: Any

• Weight: Approximated 0.38 gram

Outline

DF



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	at TA = 40°C	Io			2.0	Α
Forward surge current	8.3ms single half sine-wave superimposed on rate load (JEDEC method)	I _{FSM}			50	А
Davis and the second se	$V_R = V_{RRM} T_A = 25^{\circ}C$	_			5.0	uA
Reverse current	$V_R = V_{RRM} T_A = 125^{\circ}C$	I _R			500	
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 $V_{_{R}}\left(V\right)$	Max. forward voltage $@2A, T_A = 25^{\circ}C$ $V_F(V)$	Operating temperature T _J (°C)
DF2005	DF2005	50	35	50		
DF201	DF201	100	70	100		
DF202	DF202	200	140	200		
DF204	DF204	400	280	400	1.1	-55 ~ +150
DF206	DF206	600	420	600		
DF208	DF208	800	560	800		
DF210	DF210	1000	700	1000		
DF210	DF210	1000	700	1000		

Document ID : DS-11B18 Issued Date : 2010/05/05 Revised Date : 2012/05/31

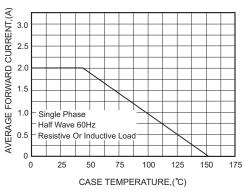
Revision : C

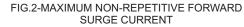


2A Miniature Glass Passivated Single-Phase Bridge Rectifiers

■ Rating and characteristic curves

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE





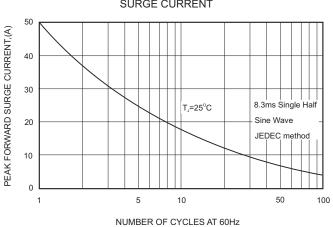


FIG.3-TYPICAL FORWARD CHARACTERISTICS

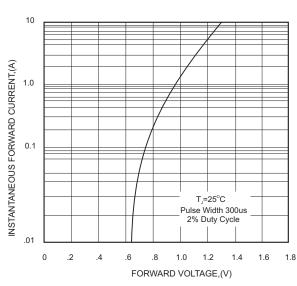
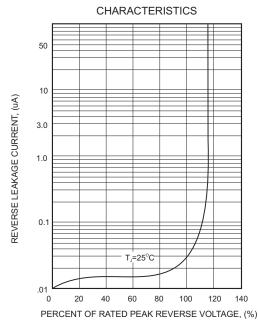


FIG.4-TYPICAL REVERSE



Revision: C



DF2005 THRU DF210

2A 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-11B18 Issued Date : 2010/05/05 Revised Date : 2012/05/31

Revision: C