

ABS151 THRU ABS1510

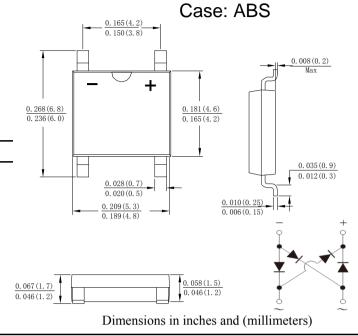
Single Phase 1.5AMP Surface Mount Glass Passivated Bridge Rectifier

Features

- Glass passivated die construction
- Low forward voltage drop
- High current capability
- High surge current capability
- Designed for surface mount application
- Plastic material-UL flammability 94V-0

Mechanical Data

- Case: SOPA-4, molded plastic ABS
- Terminals: plated leads solderable per MIL-STD-202, Method 208
- Polarity: as marked on case
- Mounting position: Any
- Marking: type number



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%.

TYPE NUMBER		SYMBOL	ABS151	ABS152	ABS154	ABS156	ABS158	ABS1510	UNITS
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage		Vrrm							
		VRWM	100	200	400	600	800	1000	V
		VDC							
RMS Reverse Voltage		VRMS	70	140	280	420	560	700	V
Average Rectified Output Current (Note:1)@Tc =100 $^\circ\!\!{\rm C}$		IF(AV)	1.5						А
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)		Ігѕм	50						А
I ² t Rating for Fusing (t < 8.3ms)		l ² t	10.375					A ² s	
0 1	@IF=0.75A @IF=1.5A	Vfm	0.95 1.0						V
Peak Reverse Current @TJ=25℃ At Rated DC Blocking Voltage @TJ=125℃		lr	5.0 100						uA
Typical Junction Capacitance	(Note2)	CJ			2	20			pF
Typical Thermal Resistance		Reja	62.5						°C/W
		Rejl	25						
Operating and Storage Temperature Range		Тј,Тѕтс	-55to+150						°C

Note:1. Mounted on glass epoxy PC board with 1.3mm² solder pad.

2. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.



ABS151 THRU ABS1510

Single Phase 1.5AMP Surface Mount Glass Passivated Bridge Rectifier

Fig. 1 Output Current Derating Curve



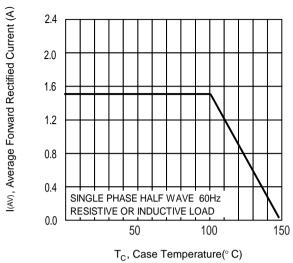
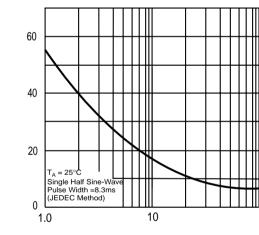
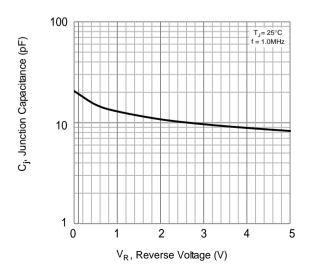


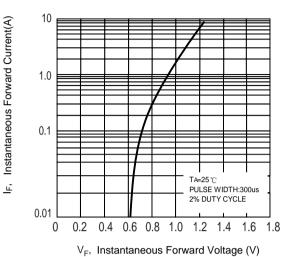
Fig.3 Maximum Peak Forward Surge Current



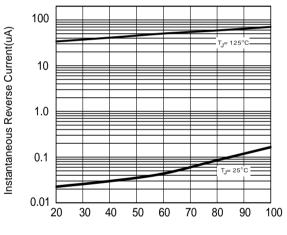
Number Of Cycles At 60HZ

Fig. 5 Typical Junction Capacitance



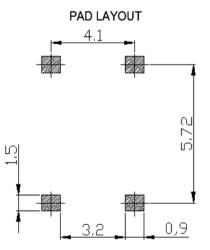






Percent Of Rated Peak Reverse Voltage(%)

Fig.6 Mounting Pad Layout



IFSM, Peak Forward Surge Current (A)



ABS151 THRU ABS1510

Single Phase 1.5AMP Surface Mount Glass Passivated Bridge Rectifier

Important Notice and Disclaimer

- Reproducing and modifying information of the document is prohibited without permission from XINNUO
- XINNUO reserves the right to make changes to this document and its products and specifications
- XINNUO disclaims any and all liability arising out of the application or use of any product including damages incidentally and consequentially occurred.
- XINNUO does not assume any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.
- Applications shown on the here in document are examples of standard use and operation. Customers are responsible in comprehending the suitable use in particular applications.

XINNUO makes no representation or warranty that such applications will be suitable for the specified use without further testing or modification.

- The products shown here in are not designed and authorized for equipments requiring high level of reliability or relating to human life and for any applications concerning life-saving or life-sustaining, such as medical instruments, transportation equipment, aerospace machinery et cetera. Customers using or selling these products for use in such applications do so at their own ris k andagree to fully indemnify XINNUO for any damages resulting from such improper use or sale.
- Since XINNUO uses lot number as the tracking base, please provide the lot number for tracking when complaining.