

ABS2 THRU ABS10

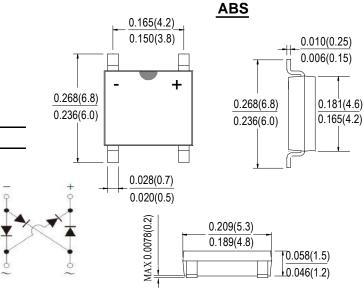
SINGLE PHASE 0.8AMP SURFACE MOUNT GLASS PASSIVATED BRIDGE RECTIFIER

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



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%.

TYPE NUMBER	SYMBOL	ABS2	ABS4	ABS6	ABS8	ABS10	UNITS
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM	200	400	600	800	1000	V
	VRWM						
	VDC						
RMS Reverse Voltage	VRMS	140	280	420	560	700	V
Average Rectified Output Current (Note 1)@Tc=100 (Note 2)@Tc=100	I IF(AV)	0.5 0.8					А
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	30				А	
I ² t Rating for Fusing (t < 8.3ms)	l²t	3.74					A ² s
Forward Voltage per element @IF=0.5A @IF=0.8A	V _{FM}	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 (Note3)	CJ	13				pF	
Typical Thermal Resistance	RөJA	62.5					°C/W
	Rejl	25					
Operating and Storage Temperature Range	ТJ,Тsтg	-55to+150					$^{\circ}\mathbb{C}$

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

- 2. Mounted on aluminum substrate PC board with 1.3mm² solder pad.
- 3. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

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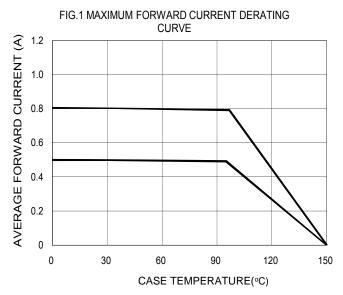


Fig. 3 Maximum Peak Forward Surge Current

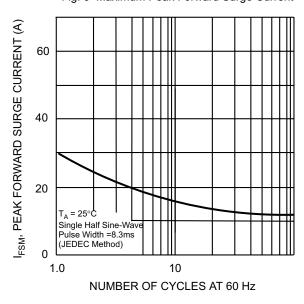
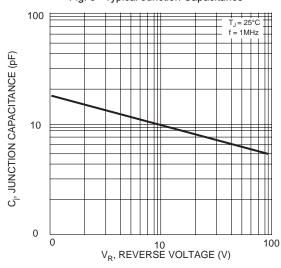


Fig. 5 Typical Junction Capacitance



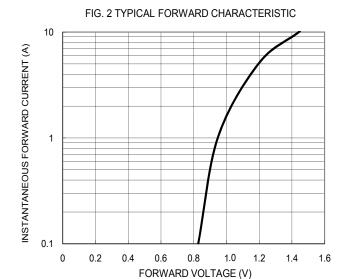
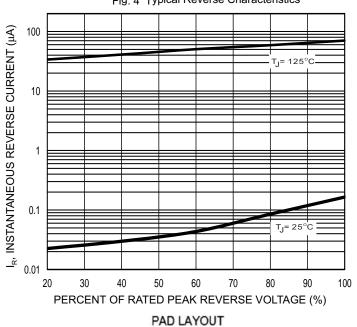
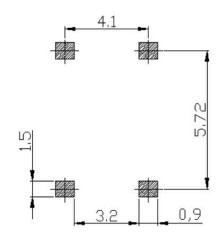


Fig. 4 Typical Reverse Characteristics







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