

ABF2 THRU ABF10

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

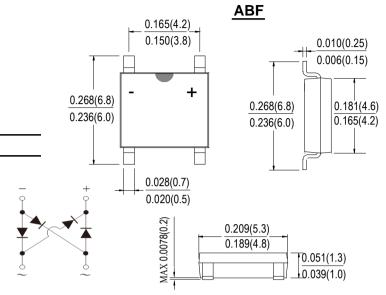
· Case: SOPA-4, molded plastic

 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	ABF2	ABF4	ABF6	ABF8	ABF10	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℃	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)	İfsm	30					А
Rating for fusing (t<8.3ms)	l ² t	3.74					A ² s
Forward Voltage per element @IF=0.5A @IF=0.8A	Vғм	0.95 1.0					٧
Peak Reverse Current @TA =25°C At Rated DC Blocking Voltage @TA =125 °C	lr	5.0 200					uA
Typical Thermal Resistance per leg (Note 3)	Reja	62.5					°C/W
	Rejl	25					
Operating and Storage Temperature Range	Т _Ј ,Тѕтс	-55to+150					$^{\circ}$ C

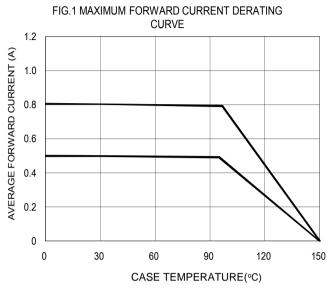
Note:1. Mounted on glass epoxy PC board with 1.3mm² solder pad.

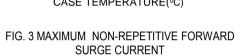
- 2. Mounted on aluminum substrate PC board with 1.3mm² solder pad.
- 3. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

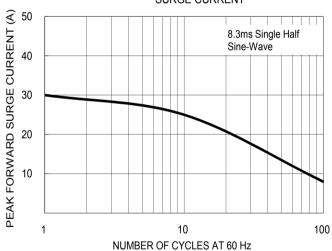
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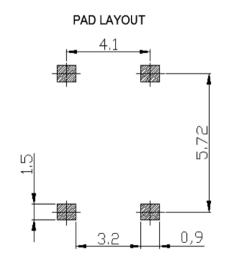


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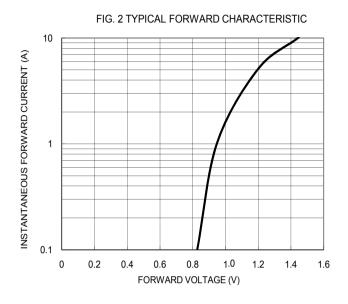
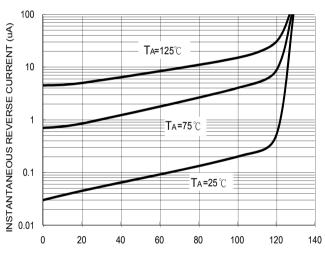


FIG. 4 TYPICAL REVERSE CHARACTERISTICS



PERCENT OF RATED PEAK REVERSE VOLTAGE(%)



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