

## **ABS2U THRU ABS10U**

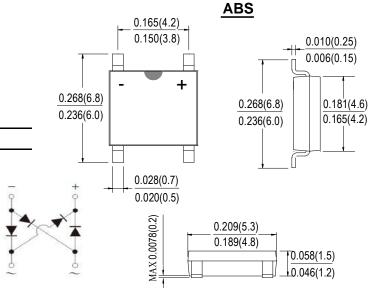
#### SINGLE PHASE 1.0AMP SURFACE MOUNT GLASS PASSIVATED BRIDGE RECTIFIER

#### **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	ABS2U	ABS4U	ABS6U	ABS8U	ABS10U	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 ℃	IF(AV)	1.0					Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	Ігѕм	35					А
I <sup>2</sup> t Rating for Fusing (t < 8.3ms)	l²t	5.08					A <sup>2</sup> s
Forward Voltage per element @IF=0.5A @IF=1.0A	VFM	0.95 1.0					٧
Peak Reverse Current @TJ =25℃ At Rated DC Blocking Voltage @TJ =125℃	lr	5.0 100					uA
Typical Junction Capacitance (Note2)	СЈ	15					pF
Typical Thermal Resistance	Reja	62.5					°C/W
	Rejl	25					
Operating and Storage Temperature Range	TJ,Tstg	-55to+150					$^{\circ}\mathbb{C}$

Note:1. Mounted on glass epoxy PC board with 1.3mm<sup>2</sup> solder pad.

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

version:04 1 of 3 www.dyelec.com



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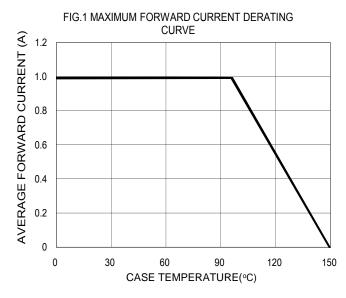


Fig. 3 Maximum Peak Forward Surge Current

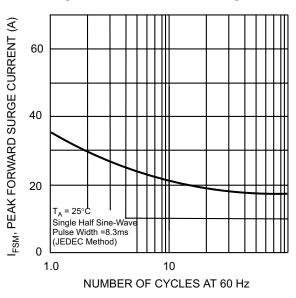


Fig. 5 Typical Junction Capacitance

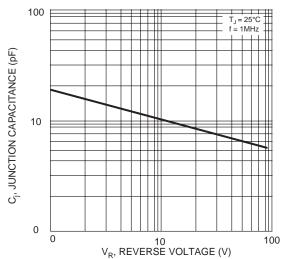


FIG. 2 TYPICAL FORWARD CHARACTERISTIC

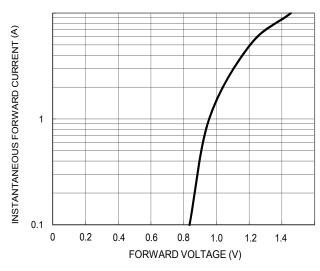
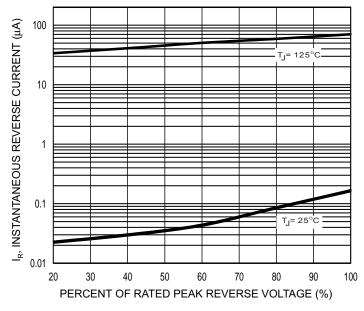
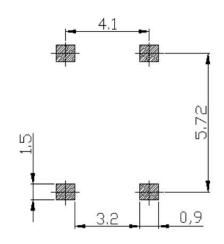


Fig. 4 Typical Reverse Characteristics



PAD LAYOUT





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version:04 3 of 3 www.dyelec.com