

# **DB101S THRU DB107S**

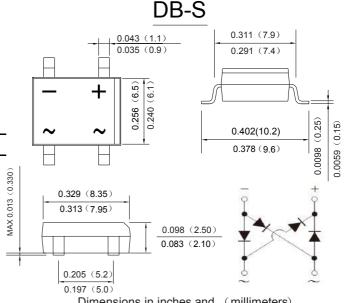
#### SINGLE PHASE 1.0AMP SURFACE MOUNT GLASS PASSIVATED BRIDGE RECTIFIER

### **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: DB-S, molded plastic
- Terminals: plated leads solderable per MIL-STD-202, Method 208
- · Polarity: as marked on case
- · Mounting position: Any
- · Marking: type number
- · Lead Free: For RoHS / Lead Free Version



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	DB101S	DB102S	DB103S	DB104S	DB105S	DB106S	DB107S	UNITS
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM	50	100	200	400	600	800	1000	V
	VRWM								
	VDC								
RMS Reverse Voltage	VRMS	35	70	140	280	420	560	700	V
Average Rectified Output Current (Note 1)@Tc=100°C	IF(AV)	1.0							Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	Iғsм	45							Α
I <sup>2</sup> t Rating for Fusing (t < 8.3ms)	l²t	8.404							A <sup>2</sup> s
Forward Voltage per element @IF=1.0A	Vғм	1.0							٧
Peak Reverse Current @T」=25℃ At Rated DC Blocking Voltage @T」=125℃	lR	5.0 100							uA
Typical Junction Capacitance (Note 2)	СJ	15							pF
Typical Thermal Resistance	RөJA	40							°C/W
	Rejl	15							
Operating and Storage Temperature Range	TJ,TsTG	-55to+150							$^{\circ}$

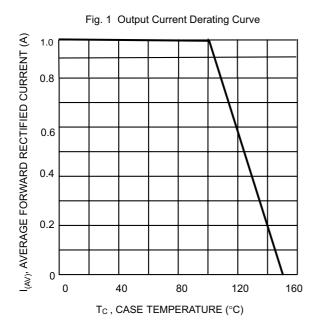
Note:1. Mounted on glass epoxy PC board with 1.3mm<sup>2</sup> solder pad.

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

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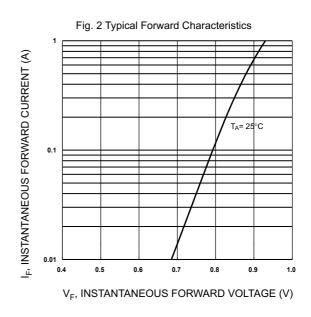
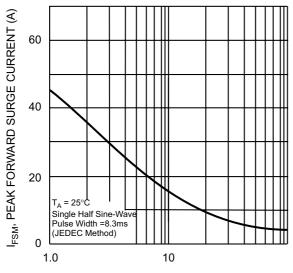
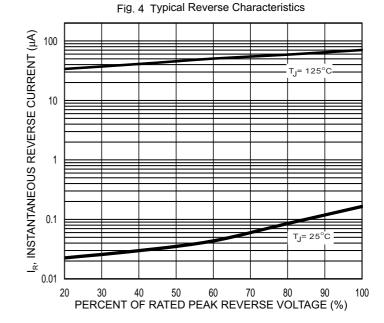


Fig. 3 Maximum Peak Forward Surge Current





NUMBER OF CYCLES AT 60 Hz

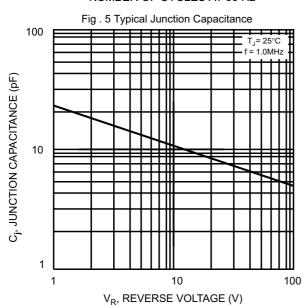
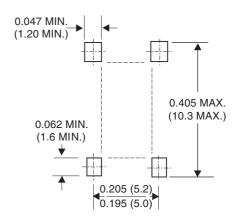


FIG.6 MOUNTING PAD LAYOUT





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