

DB101S THRU DB107S

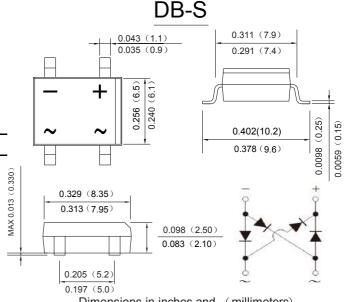
SINGLE PHASE 1.0AMP SURFACE MOUNT GLASS PASSIVATED BRIDGE RECTIFIER

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℃ 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℃	IF(AV)	1.0							Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	lfsм	45							Α
I ² t Rating for Fusing (t < 8.3ms)	l²t	8.404							A ² s
Forward Voltage per element @IF=1.0A	V _{FM}	1.0							٧
Peak Reverse Current @TJ=25℃ At Rated DC Blocking Voltage @TJ=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	Т _J ,Тsтg	-55to+150							$^{\circ}$ C

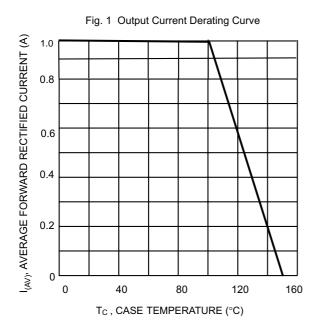
Note:1. Mounted on glass epoxy PC board with 1.3mm² solder pad.

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

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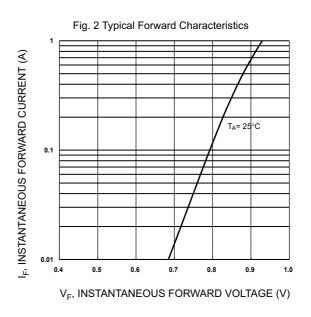
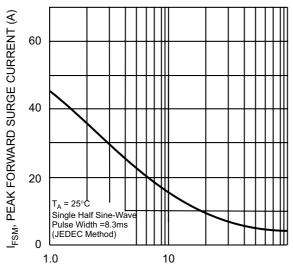
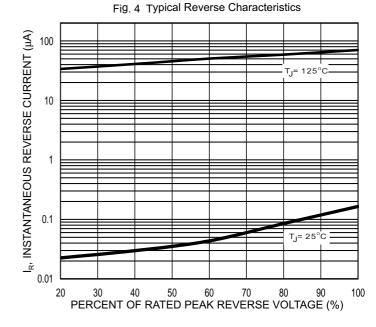


Fig. 3 Maximum Peak Forward Surge Current





NUMBER OF CYCLES AT 60 Hz

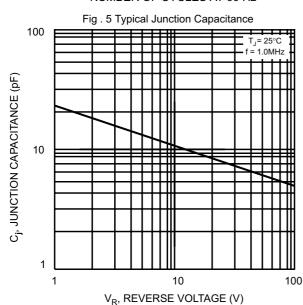
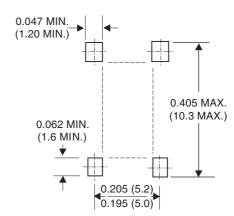


FIG.6 MOUNTING PAD LAYOUT





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