

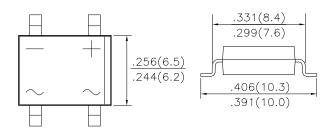
## **DB101S THRU DB107S**

#### 1.0A SINGLE-PHASE GLASS PASSIVATED BRIDGE RECTIFIERS

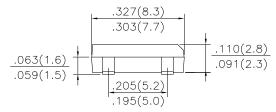
RECTIFIER REVERSE VOLTAGE 50 TO 1000V

## **FEATURES**

- Rating to 1000V PRV
- Ideal for printed circuit board
- Low forward voltage drop, high current capability
- Reliable low cost construction utilizing molded plastic technique results in inexpensive product
- Lead tin Pb/Sn copper
- The plastic material has UL flammability classification 94V-0



PACKAGE: THIN DIP



## **MECHANICAL DATA**

Polarit: As marked on BodyWeight: 0.02 ounces,0.38 gras

Mounting position: Any

Dimensions in inches and (millimeters)

#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

Characteristic	Symbol	DB	DB	DB	DB	DB	DB	DB	Unit
		101S	102S	103S	104S	105S	106S	107S	
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	V
Maximum RMS Input Voltage	VRMS	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	V
Maximum Average Rectified Output Current @ Ta = 40°C	I(AV)	1.0							Α
Peak Forward Surge Current Single Half Sine-wave	IFSM 50							۸	
Superimposed on Rated Load (JEDEC Method)	IFSM	50							Α
Maximum Instantaneous Forward Voltage drop	VF	1.1							V
per Element at IF = 1.0A	VF								
Maximum Reverse DC Current at Rated @ TA =25°C	l-	10							uA
DC Blocking Voltage per Element @ TA = 100°C	IR	IR 1.0							mA
Typical Thermal Resistance (Note 1)	RqJA	40							K/W
Storage and Operating Temperature Range	Т <sub>Ј</sub> ,Тѕтс	-55 to +150							°C

Single phase, half wave ,60Hz, resistive or inductive load.

For capacitive load, derate current by 20%

Notes: 1. Thermal resistance from junction to ambient mounted on PC board with 13mm x 13mm copper pads.

- 2. 60 Hz resistive or inductive load.
- 3. For capacitive load, derate current by 20%.



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#### 1.0A SINGLE-PHASE GLASS PASSIVATED BRIDGE RECTIFIERS

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FIG. 1 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT 60 PEAK FORWARD SURGE CURRENT, (A) 50 8.3ms Single Half Sine-Wave (JEDED Method) 40 30 20 10 0 0 10 20 40 60 100 NUMBER OF CYCLES AT 60Hz

