



## SINGLE-PHASE GLASS PASSIVATED SILICON BRIDGE RECTIFIER VOLTAGE 1000 Volts CURRENT 1.0 Ampere

### FEATURES

- \* Good for automation insertion
- \* Surge overload rating 50 amperes peak
- \* Ideal for printed circuit board
- \* Reliable low cost construction utilizing molded
- \* Glass passivated device
- \* Polarity symbols molded on body
- \* Mounting position: Any
- \* Weight: 1.0 gram

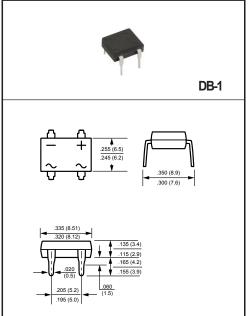
## **MECHANICAL DATA**

- \* Epoxy: Device has UL flammability classification 94V-O
- \* UL listed under the recognized component directory, file #E94233.

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified.

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



Dimensions in inches and (millimeters)

#### MAXIMUM RATINGS (At T<sub>A</sub> = 25°C unless otherwise noted)

For capacitive load, derate current by 20%.

RATINGS	SYMBOL	DB107-C-S-R01	UNITS
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	1000	Volts
Maximum RMS Bridge Input Voltage	V <sub>RMS</sub>	700	Volts
Maximum DC Blocking Voltage	V <sub>DC</sub>	1000	Volts
Maximum Average Forward Output Current at T <sub>A</sub> = 40°C	Io	1.0	Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I <sub>FSM</sub>	50	Amps
Typical Thermal Resistance (Note 2)	R <sub>θJA</sub>	40	°C/W
	Røjl	15	
Operating and Storage Temperature Range	TJ,TSTG	-55 to + 150	۰C

ELECTRICAL CHARACTERISTICS (At T<sub>A</sub> = 25°C unless otherwise noted)

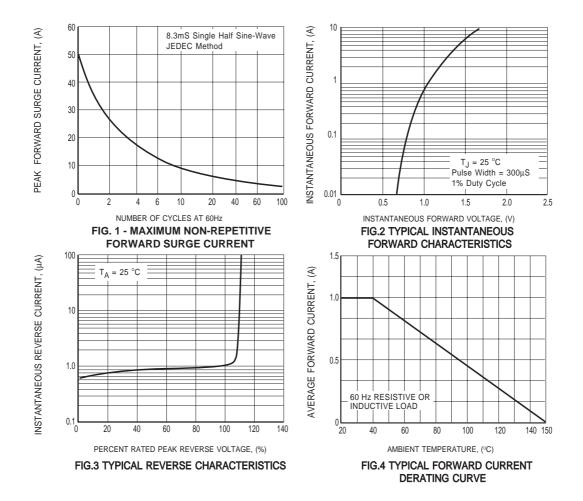
CHARACTERISTICS		SYMBOL	DB107-C-S-R01	UNITS
Maximum Forward Voltage Drop per Bridge		VF	1.1	Volts
Element at 1.0A DC				
Maximum Reverse Current at Rated	@T <sub>A</sub> = 25°C	. I <sub>R</sub>	2.0	μAmps
DC Blocking Voltage per element	@T <sub>A</sub> = 125°C		0.5	mAmps

Note: 1."Fully ROHS compliant","100% Sn plating(Pb-free).

2. Thermal Resistance: PCB mounted.

2007-1







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