



### SINGLE-PHASE GLASS PASSIVATED SILICON BRIDGE RECTIFIER VOLTAGE RANGE 50 to 1000 Volts CURRENT 1.0 Ampere

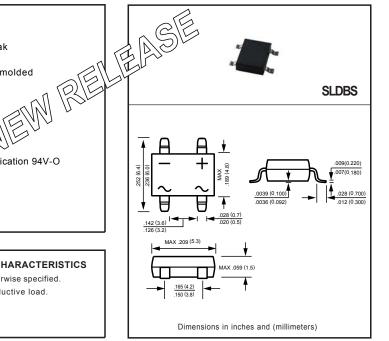
#### **FEATURES**

- \* Good for automation insertion
- \* Surge overload rating 30 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: 0.33 gram

#### MECHANICAL DATA

\* Epoxy: Device has UL flammability classification 94V-O

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS Ratings at 25 °C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load.



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

For capacitive load, derate current by 20%.

RATINGS	SYMBOL	SLDB101S	SLDB102S	SLDB103S	SLDB104S	SLDB105S	SLDB106S	SLDB107S	UNITS
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	Volts
Maximum RMS Bridge Input Voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Output Current at $T_A = 40^{\circ}C$	I <sub>0</sub>	1.0							Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I <sub>FSM</sub>				30				Amps
Typical Thermal Resistance (Note 2)	R <sub>θJA</sub>	62.5							
	RθJL	25							- °C/W
Operating and Storage Temperature Range	TJ,TSTG				-55 to + 150	)			٥C

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

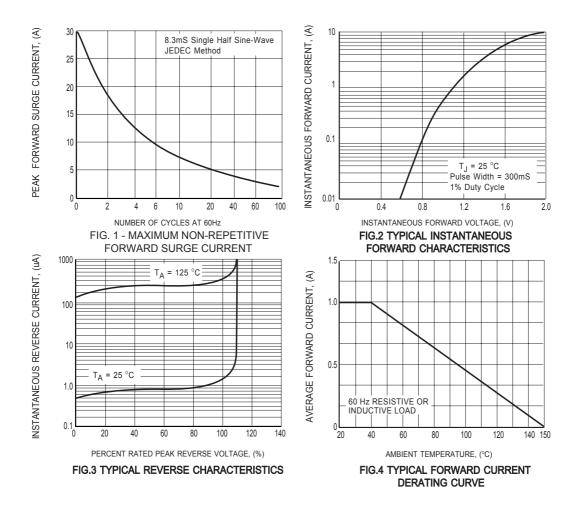
CHARACTERISTICS		SYMBOL	SLDB101S SLDB102S SLDB103S SLDB104S SLDB105S SLDB106S SLDB107S	UNITS				
Maximum Forward Voltage Drop per Bridge		VF	11					
Element at 1.0A DC		VF	1.1					
Maximum Reverse Current at Rated	@T <sub>A</sub> = 25°C	I <sub>R</sub>	2.0	uAmps				
DC Blocking Voltage per element	@T <sub>A</sub> = 125°C		0.5	mAmps				
Note: 4 "Evilue DOLIC compliant" "4000/ Completion/De free >								

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

2. Thermal Resistance: Mounted on PCB.

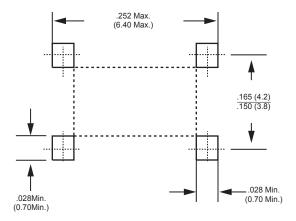
2007-08







# Mounting Pad Layout



Dimensions in inches and (millimeters)



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