# **SLDBS**

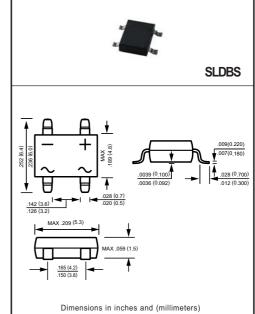
### SINGLE-PHASE GLASS PASSIVATED SILICON BRIDGE RECTIFIER VOLTAGE RANGE 50 to 1000 Volts CURRENT 1.0 Ampere

#### 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

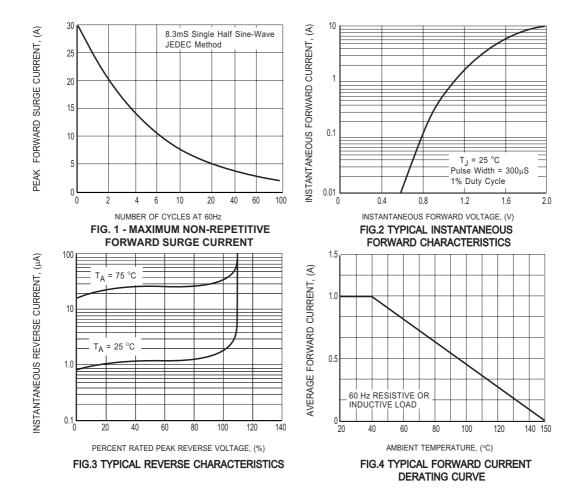
Ratings at 25 °C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.

RATINGS	SYMBOL	SLDBS V1	SLDBS V2	SLDBS V3	SLDBS V4	SLDBS V5	SLDBS V6	SLDBS V7	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							- ºC/W
	RθJL	25							
Operating and Storage Temperature Range	TJ,TSTG	G -55 to + 150							٥C

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

CHARACTERISTICS		SYMBOL	SLDBS V1	SLDBS V2	SLDBS V3	SLDBS V4	SLDBS V5	SLDBS V6	SLDBS V7	UNITS
Maximum Forward Voltage Drop per Bridge		VF	1.1							Volts
Element at 1.0A DC		VF								
Maximum Reverse Current at Rated	@T <sub>A</sub> = 25°C	- I <sub>R</sub>	2.0							
DC Blocking Voltage per element	@T <sub>A</sub> = 125°C					0.5				mAmps
Note: 1."Fully ROHS compliant","100% Sn plating(Pb-free).							2006-12			

2. Thermal Resistance: Mounted on PCB.



## **RATING AND CHARACTERISTICS CURVES (SLDBS)**