



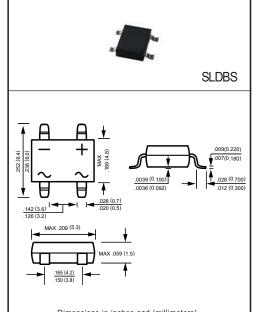
SINGLE-PHASE GLASS PASSIVATED SILICON BRIDGE RECTIFIER VOLTAGE RANGE 50 to 1000 Volts CURRENT 0.5 Ampere

FEATURES

- * Good for automation insertion
- * Surge overload rating 15 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%.

Dimensions in inches and (millimeters)

RATINGS	SYMBOL	SLDB051S	SLDB052S	SLDB053S	SLDB054S	SLDB055S	SLDB056S	SLDB057S	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS Bridge Input Voltage	V _{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Output Current at T _A = 40°C	I ₀	0.5							Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	15							Amp
Typical Current Squarad Time	l ² t	0.93							A²/Se
Turning Thormal Decistores (Nata 2)	R _{θJA}	70							– ⁰C/W
Typical Thermal Resistance (Note 2)	RθJL	30							
perating and Storage Temperature Range TJ,TSTG -55 to + 150							٥C		

ELECTRICAL CHARACTERISTICS (At T_A = 25°C unless otherwise noted)

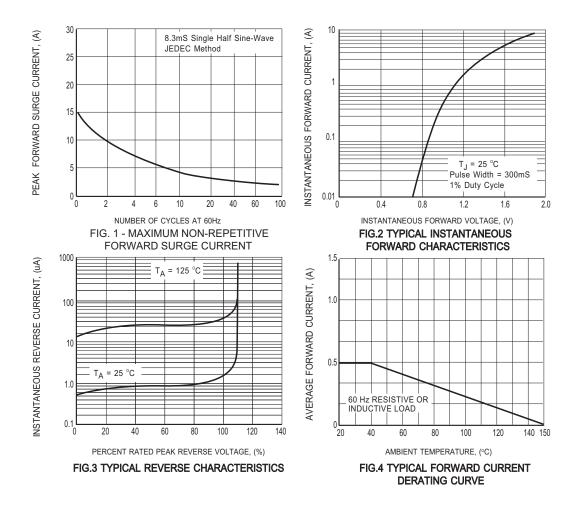
CHARACTERISTICS	SYMBOL	SLDB051S	SLDB052S	SLDB053S	SLDB054S	SLDB055S	SLDB056S	SLDB057S	UNITS	
Maximum Forward Voltage Drop per Bridge			1.0							Volts
Element at 0.5A DC										
Maximum Reverse Current at Rated	@T _A = 25°C	la la	1.0							uAmps
DC Blocking Voltage per element	@T _A = 125°C	'R	0.05							mAmps

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

2. Thermal Resistance: Mounted on PCB.

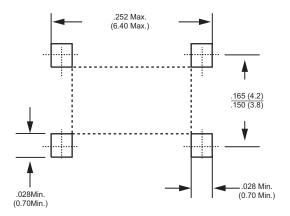
2016-10 REV:A







Mounting Pad Layout



Dimensions in inches and (millimeters)



PACKAGING OF DIODE AND BRIDGE RECTIFIERS

REEL PACK

PACKAGE	PACKING CODE	EA PER REEL	EA PER INNER BOX	COMPONENT SPACE (mm)	TAPE SPACE (mm)	REEL DIA (mm)	CARTON SIZE (mm)	EA PER CARTON	GROSS WEIGHT(Kg)
SLDBS	-T/W	5,000	10,000			330	360*355*360	80,000	16.18

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