

LDB101S THRU LDB107S

SINGLE-PHASE GLASS PASSIVATED SILICON BRIDGE RECTIFIER

VOLTAGE RANGE 50 to 1000 Volts CURRENT 1.0 Ampere

FEATURES

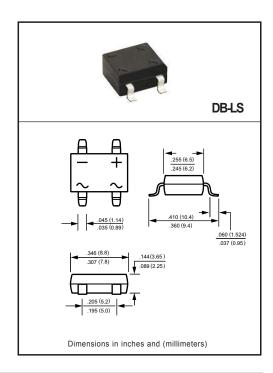
- * Good for automation insertion
- * Ideal for printed circuit board
- * Reliable low cost construction utilizing molded
- * Glass passivated device
- * Polarity symbols molded on body
- * Mounting position: Any

MECHANICAL DATA

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

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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



MAXIMUM RATINGS (At T_A = 25°C unle ss otherwise noted)

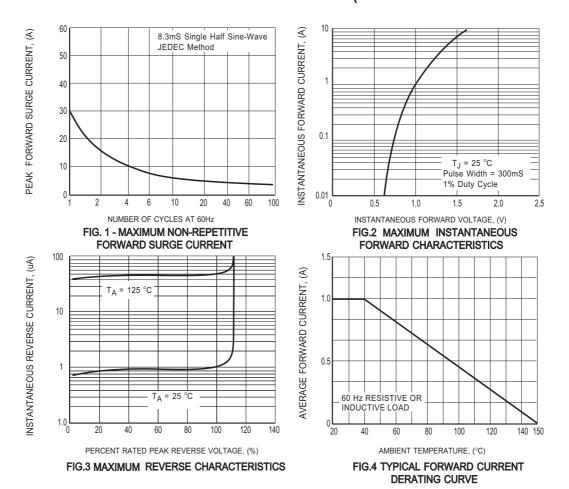
R ATINGS	SYMBOL	LDB101S	LDB102S	LDB103S	LDB104S	LDB105S	LDB106S	LDB107S	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS Bridge Input Voltage	V _{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Output Current at T _A = 40°C	I ₀	1.0						Amps	
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	30					Amps		
Typical Current Square Time	I ² T	3.73					A ² S		
Typical Thermal Resistance	R _{θJA}	55					°C/W		
Typical Thermal Resistance	RøJL	8				5/W			
Operating and Storage Temperature Range	TJ,TSTG	-55 to + 150						°C	

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

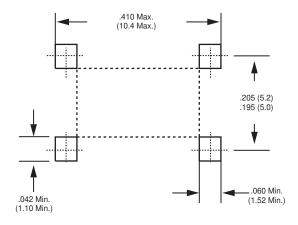
CHARACTERISTICS		SYMBOL	LDB101S	LDB102S	LDB103S	LDB104S	LDB105S	LDB106S	LDB107S	UNITS
Maximum Forward Voltage Drop per Bridge		VE	1.0							Volts
Element at 1.0A DC	V F									
Maximum Reverse Current at Rated	@T _A = 25°C	lo.	1.0						A mps	
DC Blocking Voltage per element	@T _A = 125°C	I _R	0.05						mAmps	

2020-04/97 REV:B

RATING AND CHARACTERISTICS CURVES (LDB101S THRU LDB107S)



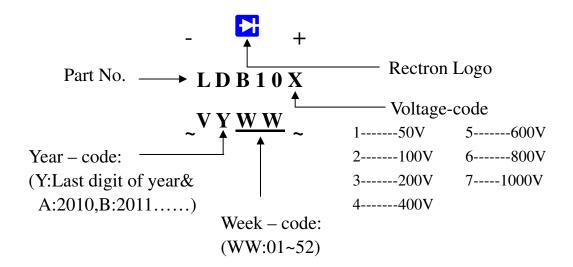
Mounting Pad Layout



Dimensions in inches and (millimeters)



Marking Description





PACKAGING OF DIODE AND BRIDGE RECTIFIERS

TUBE PACK

PACKAGE	PACKING CODE	EA PER BOX	INNER BOX SIZE (mm)	CARTON SIZE (mm)	LA FLA CARTON I	
DB-LS	-C	4,000	450*140*84	464*305*283	24,000	16.45



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