

DB101LS THRU DB107LS

SINGLE-PHASE GLASS PASSIVATED SILICON BRIDGE RECTIFIER

VOLTAGE RANGE 50 to 1000 Volts CURRENT 1.0 Ampere

FEATURES

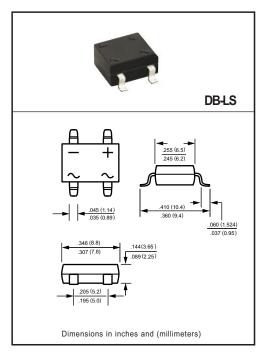
- * Good for automation insertion
- * Surge overload rating 30 amperes peak
- * Ideal for printed circuit board
- * Reliable low cost construction utilizing molded
- * Glass passivated device
- * Polarity symbols molded on body
- * Mounting position: Any

MECHANICAL DATA

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

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 $^{\circ}\text{C}$ ambient temperature unless otherwise specified. resistive or inductive load.



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

MAXIMUM RATINGS (At IA = 25 C unless otherwise noted)									
RATINGS	SYMBOL	DB101LS	DB102LS	DB103LS	DB104LS	DB105LS	DB106LS	DB107LS	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	Io	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 Squarad Time	I ² t	3.73						A ² /Sec	
Typical Thermal Resistance (Note 2)	R _{θJA}	40							°C/W
Typical Thermal Nesistance (Note 2)	R _{θJL}	15						=/**	
Operating and Storage Temperature Range	TJ,TSTG	-55 to + 150						٥C	

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

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CHARACTERISTICS	SYMBOL	DB101LS	DB102LS	DB103LS	DB104LS	DB105LS	DB106LS	DB107LS	UNITS	
Maximum Forward Voltage Drop per Bridge	V	V _F 1.0							Volts	
Element at 1.0A DC	V F								VOILS	
Maximum Reverse Current at Rated	@T _A = 25°C	l _D	1.0							uAmps
DC Blocking Voltage per element	@T _A = 125°C	I _R	0.05							mAmps

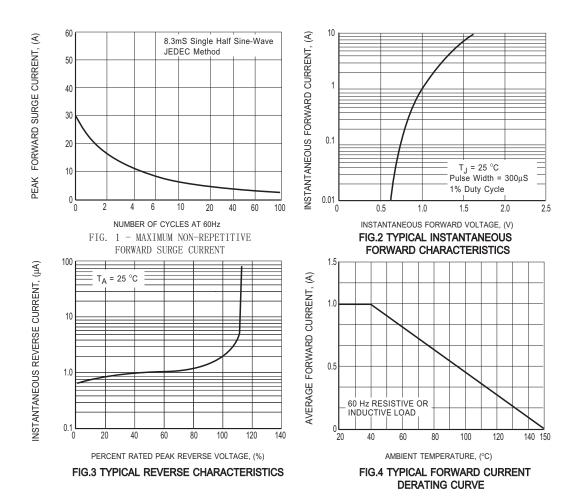
Note: 1. ROHS compliant

2. Thermal Resistance: Mounted on PCB.

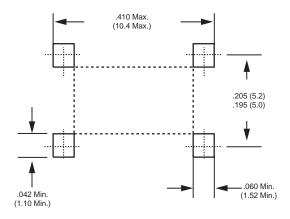
3. Available in Halogen-free epoxy by adding suffix -HF after the part nbr.

2020-04/97

RATING AND CHARACTERISTICS CURVES (DB101LS THRU DB107LS)



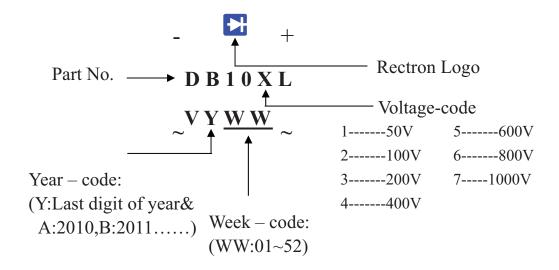
Mounting Pad Layout



Dimensions in inches and (millimeters)



Marking Description



PACKAGING OF DIODE AND BRIDGE RECTIFIERS

BULK PACK

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

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)
DB-LS	-T/W	1,000	1,000	9.5	52	330	360*355*360	8,000	9.5



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