

SINGLE-PHASE GLASS PASSIVATED SILICON BRIDGE RECTIFIER

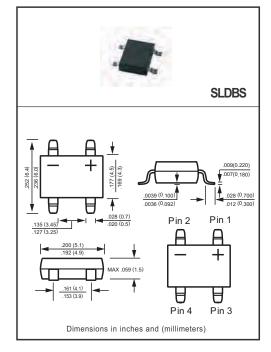
VOLTAGE 1000 Volts CURRENT 2.0 Ampere

FEATURES

- * Good for automation insertion
- * Surge overload rating 50 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
- * Halogen-free



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)

RATINGS	SYMBOL	SLDB207S	UNITS	
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	1000	Volts	
Maximum RMS Bridge Input Voltage	V _{RMS}	700	Volts	
Maximum DC Blocking Voltage	V _{DC}	1000	Volts	
Maximum Average Forward Output Current at T _A = 40°C		2.0	Amps	
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	50	Amps	
Typical Current Squared Time	l ² t	10.4	A ² /S	
Tunical Thornacl Decistores (Note 2)	R _{θJA}	62.5	- °C/W	
Typical Thermal Resistance (Note 2)	Røjl	25		
Operating and Storage Temperature Range	TJ,TSTG	-55 to + 150	٥C	

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

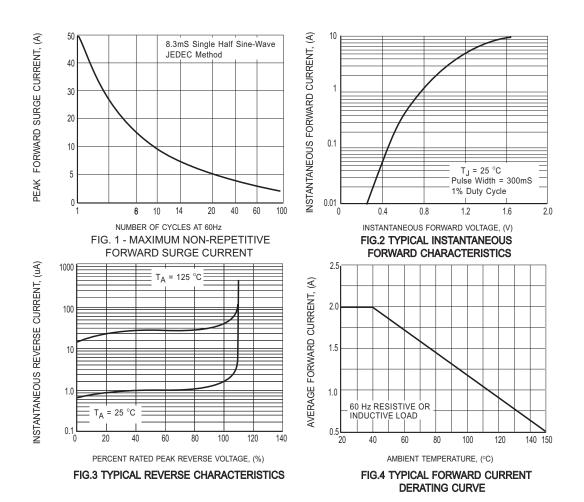
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CHARACTERISTICS		SYMBOL	SLDB207S	UNITS
Maximum Forward Voltage Drop per Bridge		VE	1.0	
Element at 2.0A DC		٧F		
Maximum Reverse Current at Rated	@T _A = 25°C	la la	1.0	uAmps
DC Blocking Voltage per element	@T _A = 125°C	IR IR	0.05	mAmps

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

2. Thermal Resistance: Mounted on PCB.

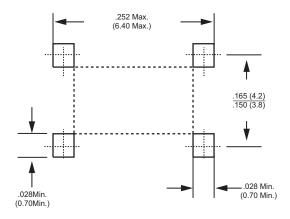
2016-07 REV:O

RATING AND CHARACTERISTICS CURVES (SLDB207S)





Mounting Pad Layout



Dimensions in inches and (millimeters)



REEL TAPING SPECIFICATIONS FOR SURFACE MOUNT DEVICES-SLDBS

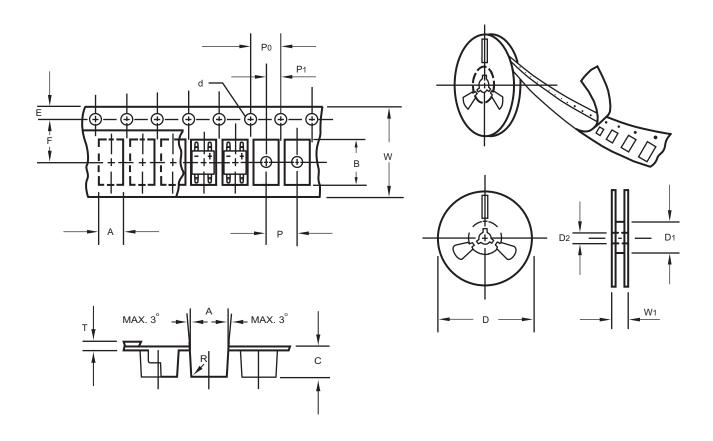
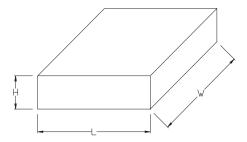


Fig.: Configuration of SLDBS TAPING

ITEM	SYMBOL SLDBS mm(inch)			
Carrier width	А	6.0 ± 0.1 (0.236 ± 0.004)		
Carrier length	В	8.30 ± 0.1 (0.327 ± 0.004)		
Carrier depth	C 2.5 ± 0.1 (0.098 ± 0.004)			
Sprocket hole	d	1.5 ± 0.1 (0.059 ± 0.004)		
Reel outside diameter	D	330 ± 2.0 (13.0 ± 0.079)		
Reel inner diameter	D1	50 Min.		
Feed hole diameter	D2 13 ± 0.5 (0.512 ± 0.020)			
Strocket hole position	E	1.5 ± 0.1 (0.059 ± 0.004)		
Punch hole position	F	7.65 ± 0.05 (0.301 ± 0.002)		
Punch hole pitch	nch hole pitch P $8.0 \pm 0.1 \ (0.315 \pm 0.00)$			
Sprocket hole pitch	P0	4.0 ± 0.1 (0.157 ± 0.004)		
Embossment center	P1	4.0 ± 0.1 (0.157 ± 0.004)		
Totall tape thickness	Т	0.6 Max.		
Tape width	W	16.0 ± 0.2 (0.630 ± 0.008)		
Reel width	W1	24.0 ± 2.0 (0.945 ± 0.079)		

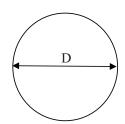
Note: 1.Devices are packed in accordance with EIA standard RS-481-A and specification given above. 2.13 inch (5000 ct.) diameter reels.

1. BOX



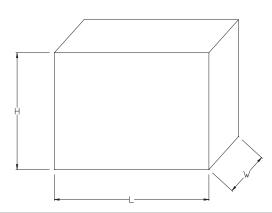
Packing	L	W	Н
Code	(mm)	(mm)	(mm)
-T	340	340	40

2. REEL



Packing	D		
Code	(mm)		
-T	330		

3. CARTON



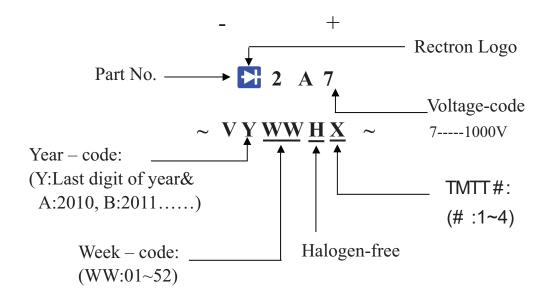
Packing	L	W	Н
Code	(mm)	(mm)	(mm)
-T	355	360	360

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

Marking Description



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