


**SINGLE-PHASE GLASS PASSIVATED  
SILICON BRIDGE RECTIFIER  
VOLTAGE 1000 Volts CURRENT 2.0 Ampere**

**FEATURES**

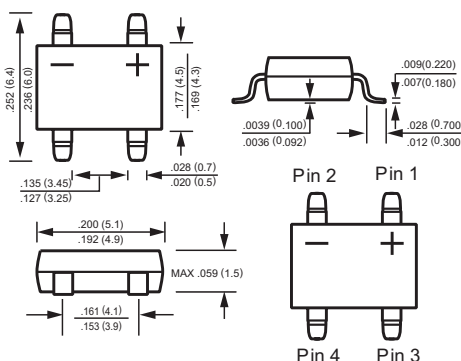
- \* Good for automation insertion
- \* Surge overload rating - 50 amperes peak
- \* Ideal for printed circuit board
- \* Reliable low cost construction utilizing molded
- \* Glass passivated device
- \* Polarity symbols molded on body
- \* Mounting position: Any
- \* Weight: 0.33 gram

**MECHANICAL DATA**

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



**SLDBS**



Dimensions in inches and (millimeters)

**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

Ratings at 25 °C ambient temperature unless otherwise specified.  
resistive or inductive load.

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

RATINGS	SYMBOL	SLDB207S	UNITS
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	1000	Volts
Maximum RMS Bridge Input Voltage	V <sub>RMS</sub>	700	Volts
Maximum DC Blocking Voltage	V <sub>DC</sub>	1000	Volts
Maximum Average Forward Output Current at T <sub>A</sub> = 40°C	I <sub>O</sub>	2.0	Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I <sub>FSM</sub>	50	Amps
Typical Current Squared Time	I <sup>2</sup> t	10.4	A <sup>2</sup> S
Typical Thermal Resistance (Note 2)	R <sub>θJA</sub>	62.5	°C/W
	R <sub>θJL</sub>	25	
Operating and Storage Temperature Range	T <sub>J</sub> ,T <sub>STG</sub>	-55 to + 150	°C

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

CHARACTERISTICS	SYMBOL	SLDB207S	UNITS
Maximum Forward Voltage Drop per Bridge Element at 2.0A DC	V <sub>F</sub>	1.0	Volts
Maximum Reverse Current at Rated DC Blocking Voltage per element	I <sub>R</sub>	@T <sub>A</sub> = 25°C	1.0
		@T <sub>A</sub> = 125°C	0.05
			uAmps
			mAmps

Note: 1. "Fully ROHS compliant", "100% Sn plating(Pb-free).  
2. Thermal Resistance: Mounted on PCB.

## RATING AND CHARACTERISTICS CURVES ( SLDB207S )

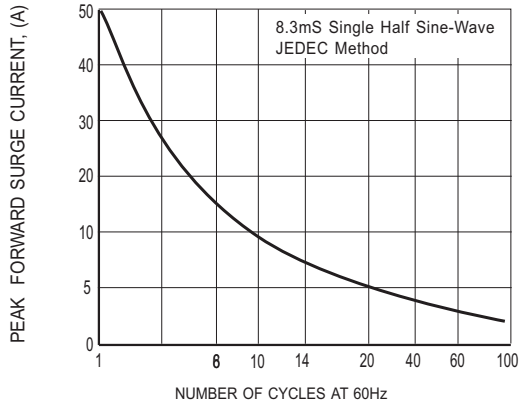


FIG. 1 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

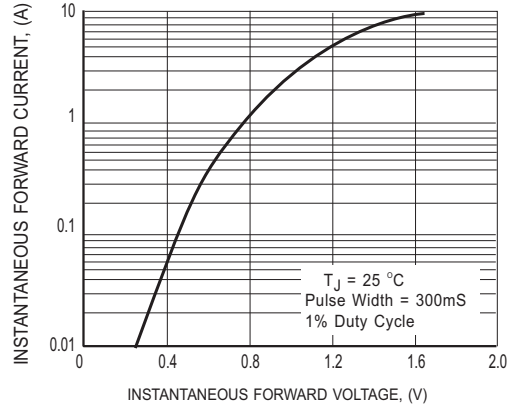


FIG. 2 TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

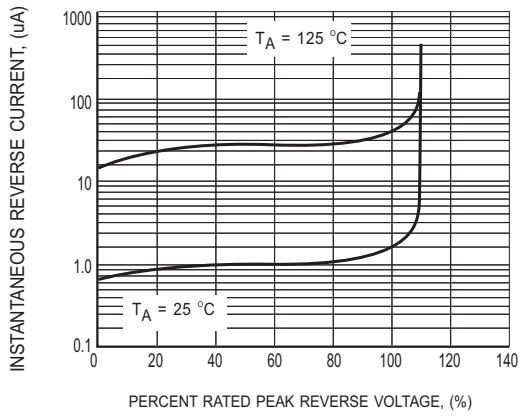


FIG. 3 TYPICAL REVERSE CHARACTERISTICS

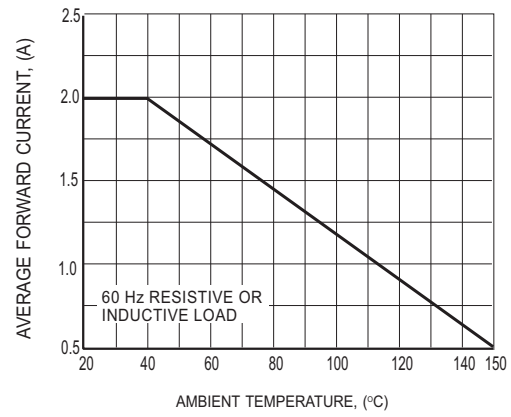
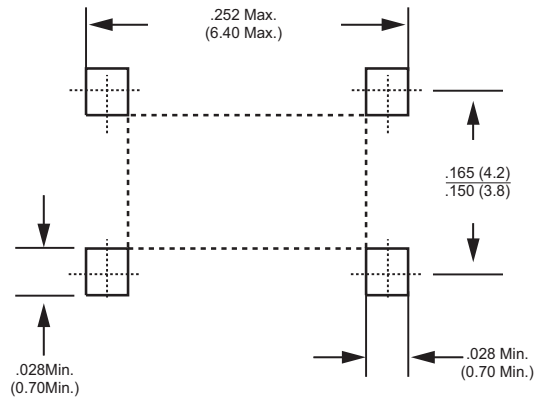


FIG. 4 TYPICAL FORWARD CURRENT DERATING CURVE

## Mounting Pad Layout



Dimensions in inches and (millimeters)

# REEL TAPING SPECIFICATIONS FOR SURFACE MOUNT DEVICES-SLDBS

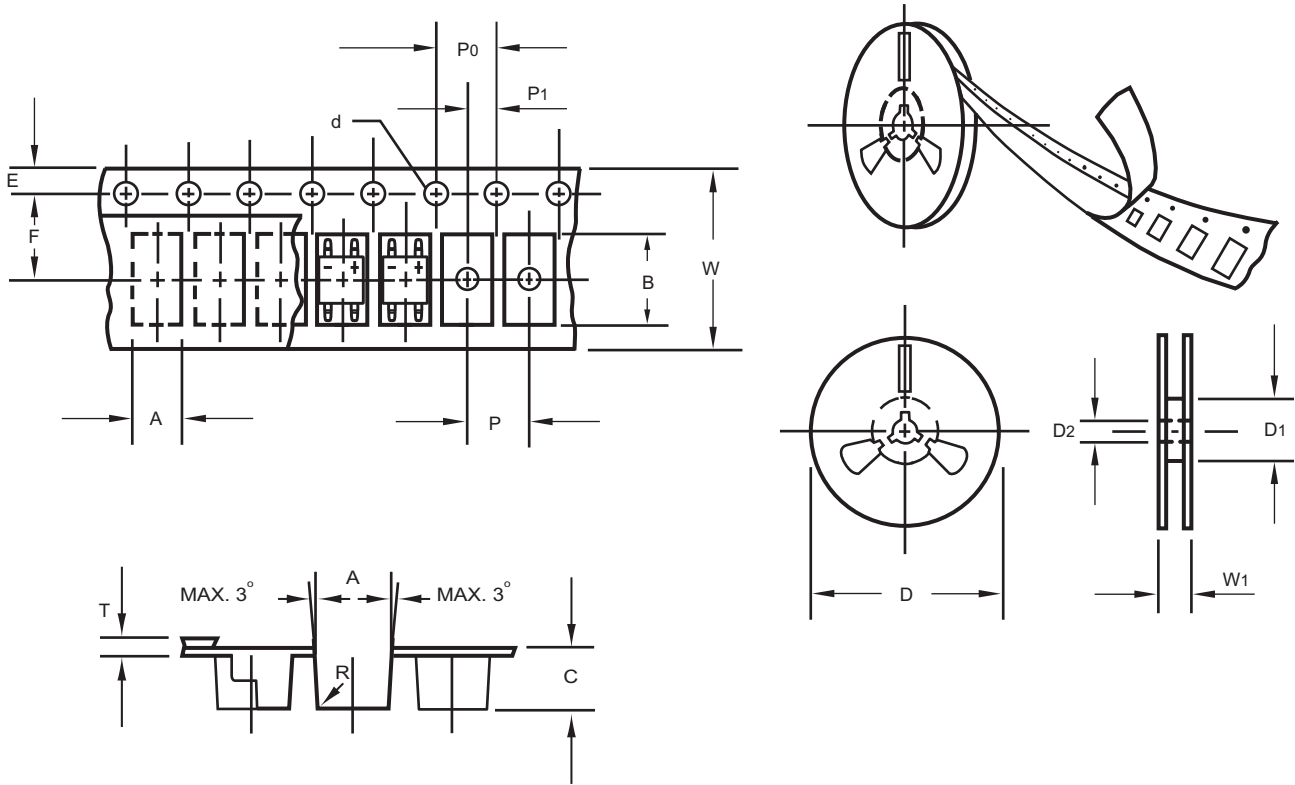
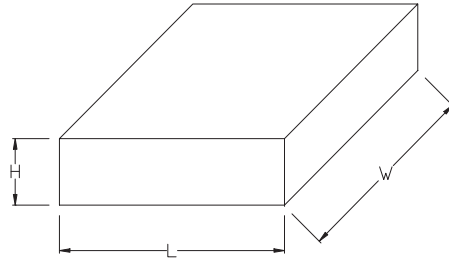


Fig.: Configuration of SLDBS TAPING

ITEM	SYMBOL	SLDBS mm(inch)
Carrier width	A	6.0 ± 0.1 (0.236 ± 0.004)
Carrier length	B	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)
Stroket 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	P	8.0 ± 0.1 (0.315 ± 0.004)
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	T	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)

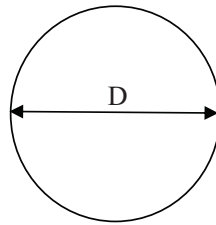
Note: 1.Devices are packed in accordance with EIA standard RS-481-A and specification given above.  
2.13 inch ( 5000 ct. ) diameter reels.

1. BOX



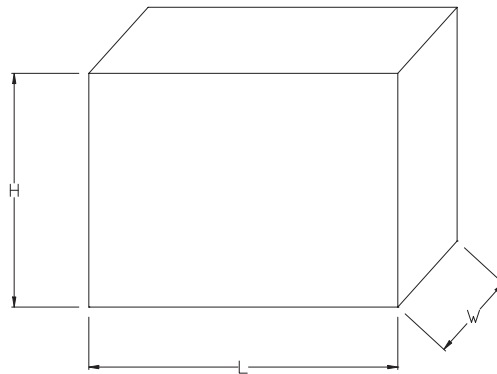
Packing Code	L (mm)	W (mm)	H (mm)
-T	340	340	40

2. REEL



Packing Code	D (mm)
-T	330

3. CARTON



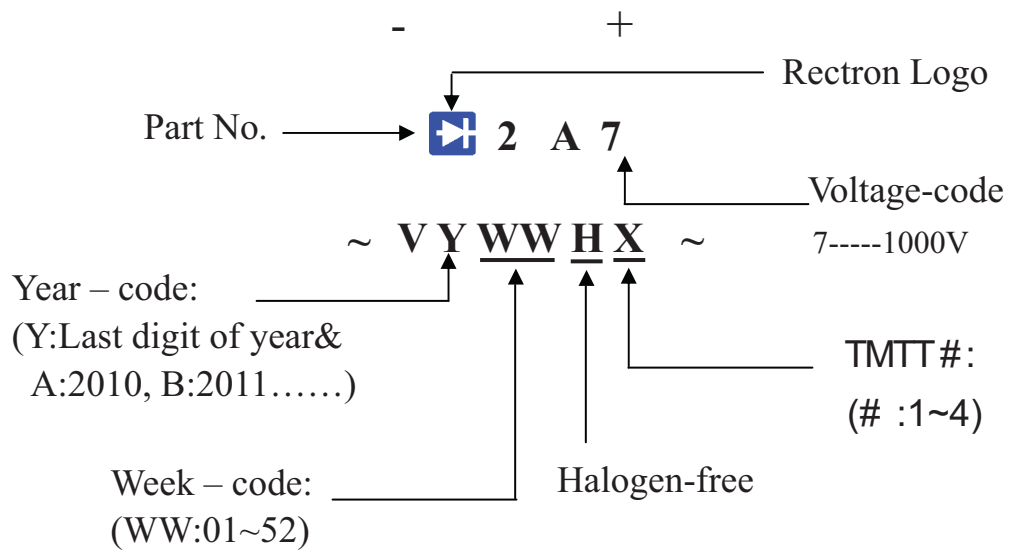
Packing Code	L (mm)	W (mm)	H (mm)
-T	355	360	360

## 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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