

HSLDB108S

HIGH EFFICIENCY RECTIFIER VOLTAGE 1000 Volts CURRENT 1.0 Ampere

FEATURES

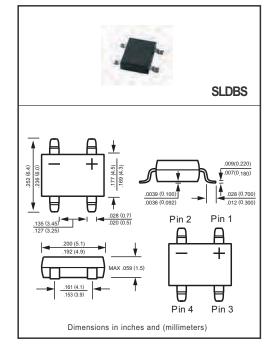
- * Low power loss, high efficiency
- * Low leakage
- * Low forward voltage drop
- * High current capability
- * High speed switching
- * High reliability
- * High current surge

MECHANICAL DATA

- * Epoxy: Device has UL flammability classification 94V-O
- * Case: Molded plastic
- * Lead: MIL-STD-202E method 208C guaranteed
- * Mounting position: Any
- * Weight: 0.33 gram
- * Halogen-free

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%.



MAXIMUM RATINGS (@ TA=25 °C unless otherwise noted)

RATINGS S		HSLDB108S	UNITS	
Maximum Recurrent Peak Reverse Voltage		1000	Volts	
Maximum RMS Voltage	V _{RMS}	700	Volts	
Maximum DC Blocking Voltage	V _{DC}	1000	Volts	
Maximum Average Forward Rectified Current at T _A = 50°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	
Current Squared Time	l ² t	3.7	A ² /Se	
Typical Thermal Resistance (Note 1)	Røjl	18	°C/W	
Typical Thermal Resistance (Note 1)	R _{θJA}	60	°C/W	
Typical Junction Capacitance (Note 2)	CJ	12	pF	
Operating Temperature Range	TJ	150	0 C	
Storage Temperature Range	T _{STG}	-55 to + 150	۰C	

ELECTRICAL CHARACTERISTICS (@TA=25 °C unless otherwise noted)

CHARACTERISTICS		SYMBOL	HSLDB108S	UNITS
Maximum Instantaneous Forward Voltage at 1.0A DC		VF	1.7	Volts
Maximum Average Reverse Current	@T _A = 25°C	la la	0.5	
at Rated DC Blocking Voltage	@T _A = 100°C	- ^I R	100	-μΑ
Maximum Reverse Recovery Time (Note 4)		trr	75	nSec

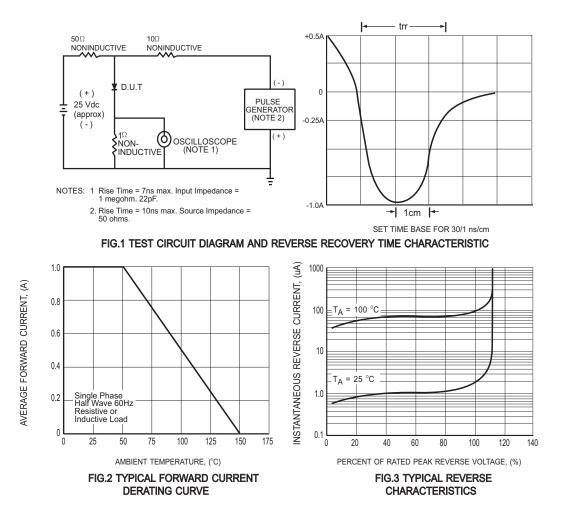
NOTES: 1. Thermal Resistance: At 9.5mm lead length, PCB mounted.

2. Measured at 1 MHz and applied reverse voltage of 4.0 volts. 3. "Fully ROHS compliant", "100% Sn plating (Pb-free)".

4. Test Conditions: I_F= 0.5A, I_R= -1.0A, I_{RR}= -0.25A.

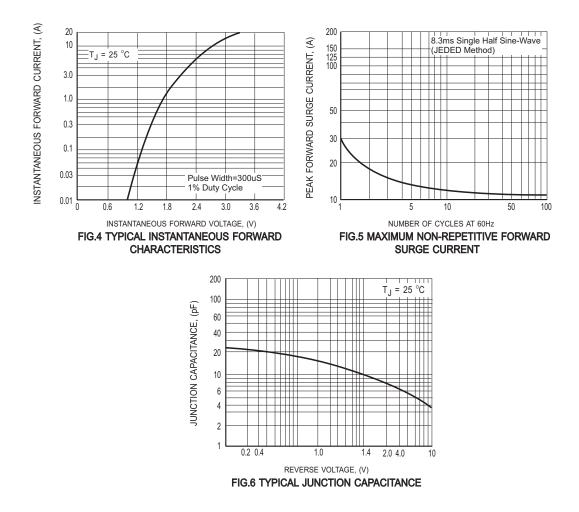
2016-08 REV: 0

RATING AND CHARACTERISTICS CURVES (HSLDB108S)



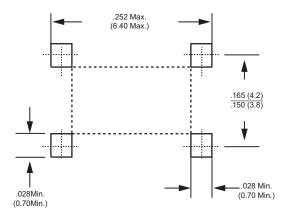








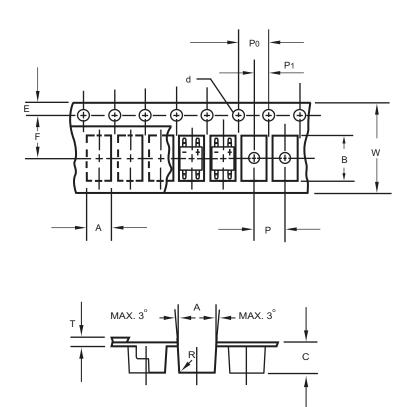
Mounting Pad Layout

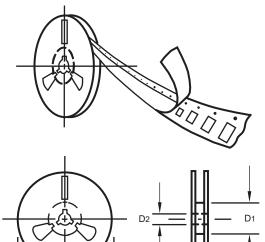


Dimensions in inches and (millimeters)



REEL TAPING SPECIFICATIONS FOR SURFACE MOUNT DEVICES-SLDBS





D

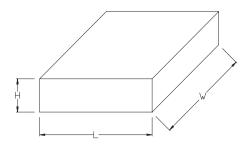
W1

Fig.: Configuration of SLDBS TAPING

ITEM	SYMBOL	SLDBS mm(inch)
Carrier width	A	6.0 ± 0.1 (0.236 ± 0.004)
Carrier length	В	8.30 ± 0.1 (0.327 ± 0.004)
Carrier depth	С	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	P	8.0 ± 0.1 (0.315 ± 0.004)
Sprocket hole pitch	Po	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)

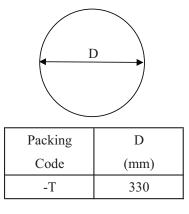
Note: 1.Devices are packed in accordance with EIA standard RS-481-A and specification given above. 2.13 inch (5000 ct.) diameter reels.

1. BOX

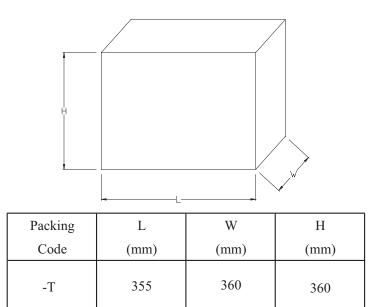


Packing	L	W	Н	
Code	(mm)	(mm)	(mm)	
-T	340	340	40	

2. REEL



3. CARTON

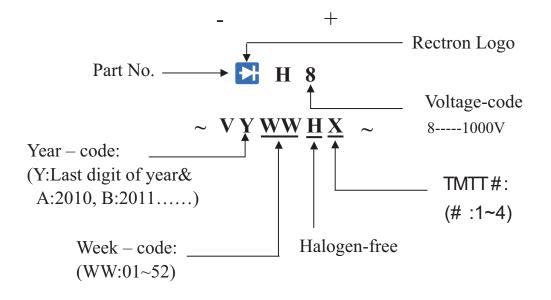


PACKAGING OF DIODE AND BRIDGE RECTIFIERS

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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