

# KSLDB3100S

### SCHOTTKY BARRIER RECTIFIER

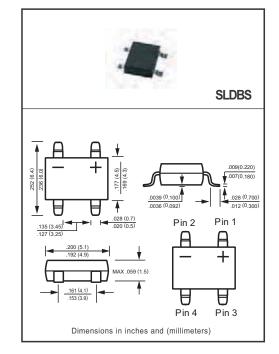
VOLTAGE 100 Volts CURRENT 3.0 Ampere

#### FEATURES

- \* Good for automation insertion
- \* Surge overload rating 120 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 °C ambient temperature unless otherwise specified. resistive or inductive load.

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

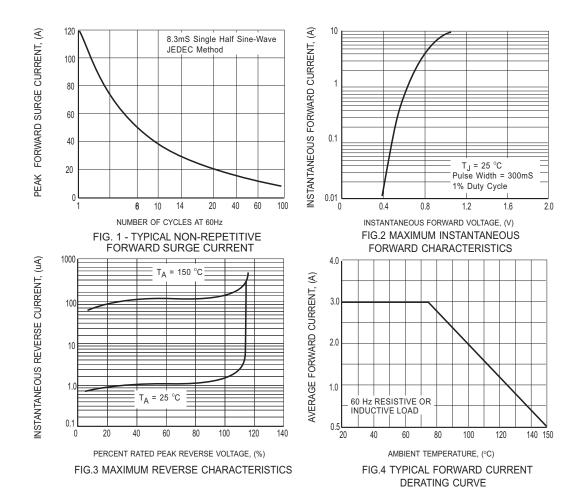
RATINGS	SYMBOL	KSLDB3100S	UNITS
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	100	Volts
Maximum RMS Bridge Input Voltage	V <sub>RMS</sub>	70	Volts
Maximum DC Blocking Voltage	V <sub>DC</sub>	100	Volts
Maximum Average Forward Output Current at T <sub>A</sub> = 75°C	Io	3.0	Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I <sub>FSM</sub>	120	Amps
Typical Current Squared Time	l <sup>2</sup> t	60	A <sup>2</sup> S
Transis of Theoremat Development (Marke 4)	R <sub>θJA</sub>	50	°C/W
Typical Thermal Resistance (Note 1)	RθJL	20	-0/10
Operating and Storage Temperature Range	TJ, TSTG	-55 to + 150	° C

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

CHARACTERISTICS			KSLDB3100S		
Maximum Forward Voltage Drop per Bridge Element at 3.0ADC			.79		
Maximum Reverse Current at Rated	@T <sub>A</sub> = 25°C	I <sub>R</sub>	2.0	uAmps	
DC Blocking Voltage per element	@T <sub>A</sub> = 150°C	чК	0.2	mAmps	

Note: 1.Thermal Resistance: Mounted on PCB.

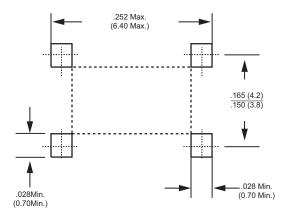
2018-09 REV:O



### **RATING AND CHARACTERISTICS CURVES (KSLDB3100S)**



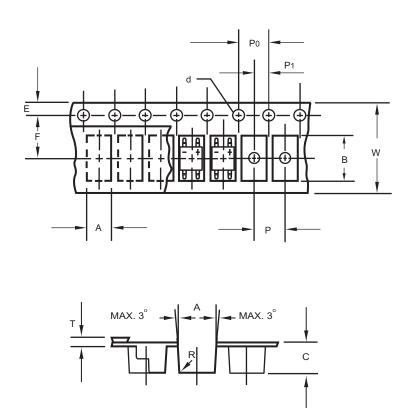
## Mounting Pad Layout

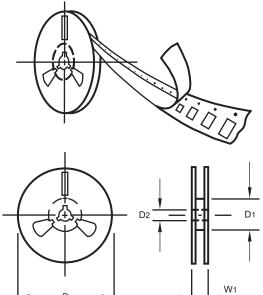


Dimensions in inches and (millimeters)



## REEL TAPING SPECIFICATIONS FOR SURFACE MOUNT DEVICES-SLDBS





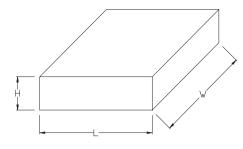
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Fig.: Configuration of SLDBS TAPING

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)			

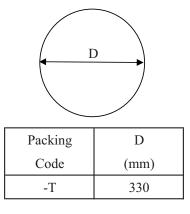
Note: 1.Devices are packed in accordance with EIA standard RS-481-A and specification given above. 2.13 inch ( 5000 ct. ) diameter reels.

1. BOX

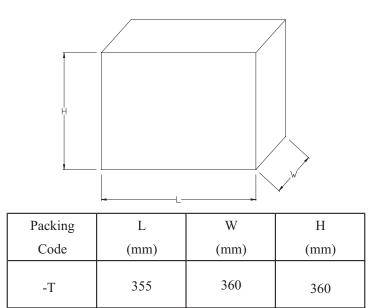


Packing	L	W	Н	
Code	(mm)	(mm)	(mm)	
-T	340	340	40	

### 2. REEL



#### 3. CARTON

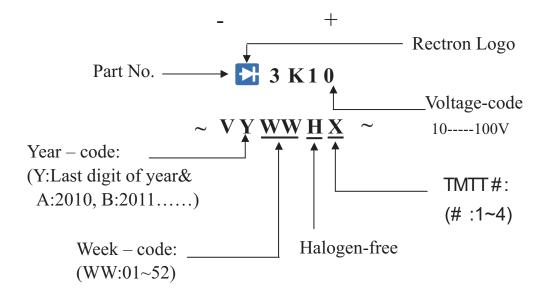


# PACKAGING OF DIODE AND BRIDGE RECTIFIERS

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	5,000	10,000			330	360*355*360	80,000	16.18

## **Marking Description**





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