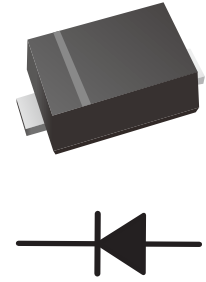


## Schottky Diode

### Features

- Low current rectification
- Low reverse current
- SOD923 Micro SMD package
- UL-94 V-0 / Green EMC
- Matte Tin Lead finish (Pb-Free)
- Cathode Band / Device marking
- Lead free in comply with EU RoHS 2011/65/EU directives



### Mechanical Data

- Case:SOD-923
- Polarity: Color band denotes cathode end
- Tape specification: Conductive

### Ordering Information

Part Number	Marking	Shipping	Reel
LT9L520-30-TR8	C1 or E	8000PCS Tape&Reel	7 inches

### Absolute Maximum Ratings (Ta = 25°C)

Symbol	Parameter	Value	Units
V <sub>R</sub>	Reverse Voltage	30	V
V <sub>RRM</sub>	Repetitive Peak Reverse Voltage	30	V
I <sub>o</sub>	Continuous Forward Current	100	mA
I <sub>FSM</sub>	Non-Repetitive Peak Forward Current (Note1)	0.6	A
T <sub>J</sub>	Junction Temperature	125	°C
T <sub>STG</sub>	Storage Temperature	-55 to +125	°C

Note:(1) 8.3 ms single half sine-wave

### Electrical Characteristics (Ta = 25°C)

Symbol	Parameter	Conditions	Min	TYP	Max	Units
V <sub>F</sub>	Forward Voltage	I <sub>F</sub> = 1mA		0.32	0.37	V
		I <sub>F</sub> = 10mA		0.40	0.45	V
		I <sub>F</sub> = 30mA		0.47	0.55	V
BV <sub>R</sub>	Breakdown Voltage	I <sub>R</sub> = 10μA	30			V
I <sub>R</sub>	Reverse Current	V <sub>R</sub> = 10V			0.5	μA



### Characteristic Curves

Fig.1 Forward Characteristics

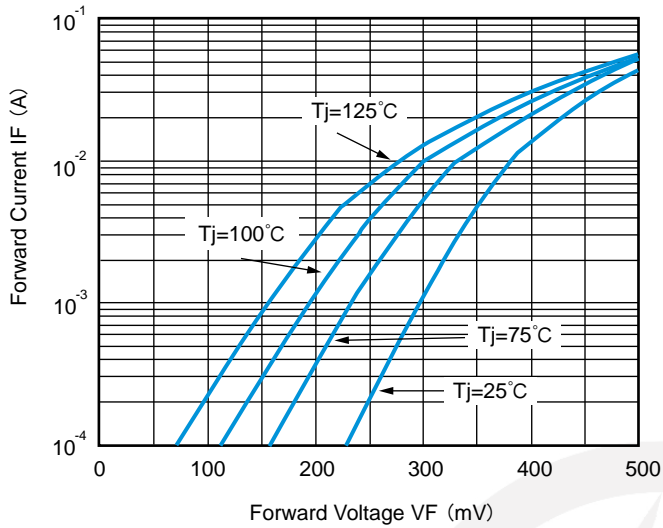
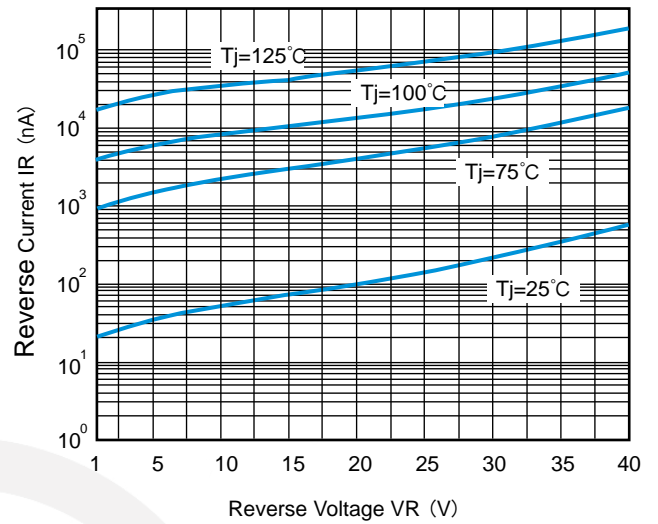
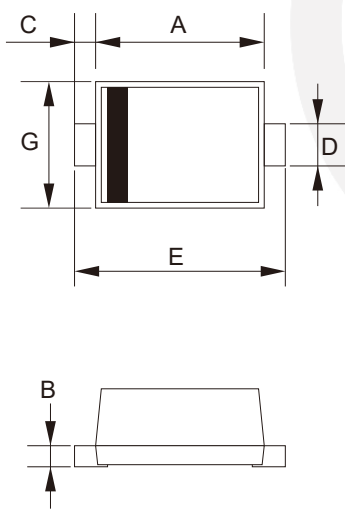


Fig.2 Reverse Characteristics



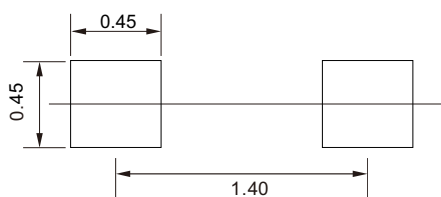
### SOD-923 Package Outline



Unit: mm

SYMBOL	DIMENSIONS	
	MIN.	MAX.
A	0.700	0.900
B	0.050	0.200
C	0.050	0.150
D	0.150	0.300
E	0.090	1.100
F	0.340	0.450
G	0.550	0.650

### SOD-923 Suggested Pad Layout

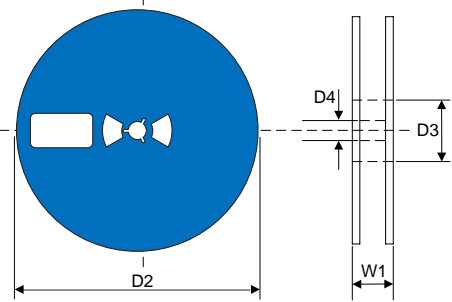


Note:

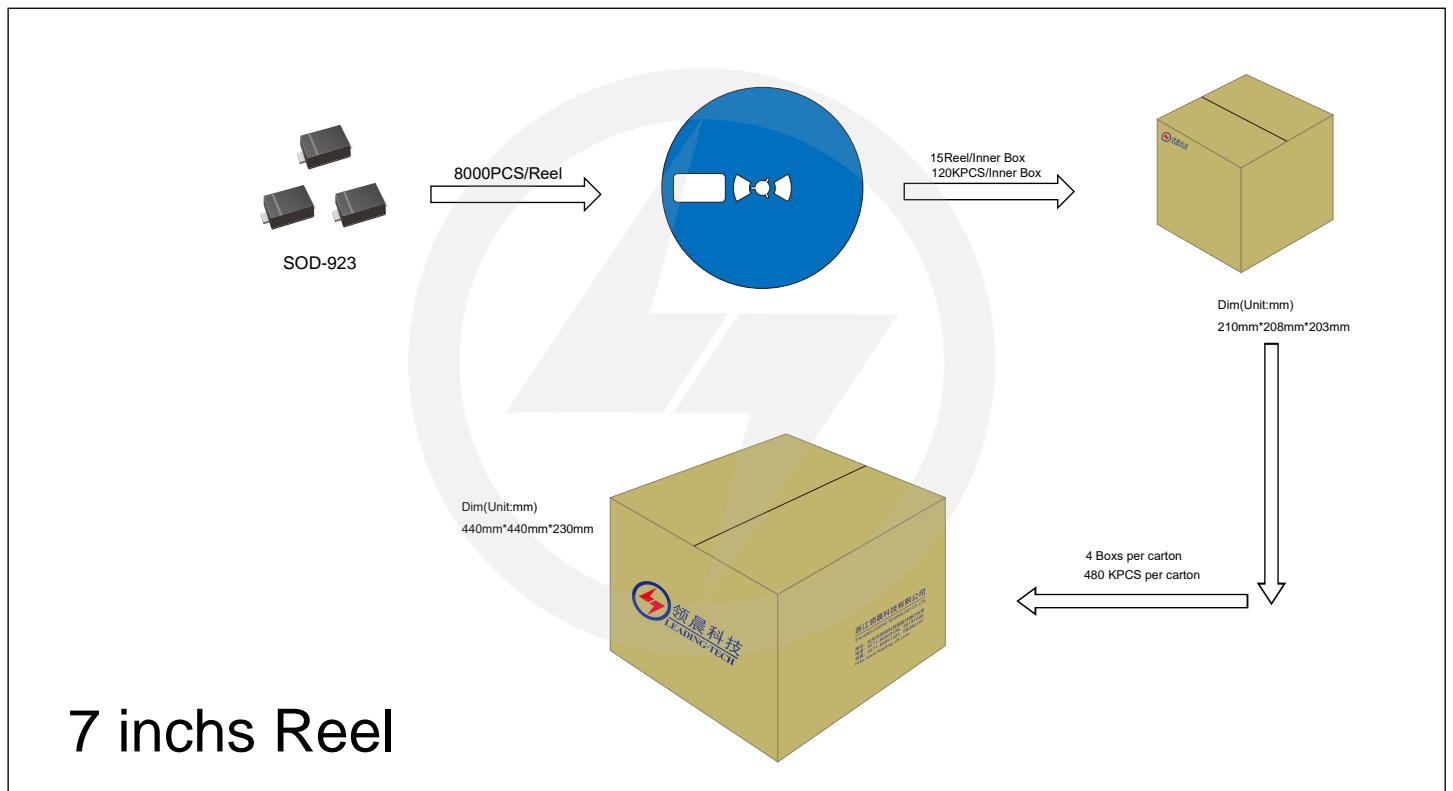
1. Controlling dimension: in millimeters.
2. General tolerance:  $\pm 0.05\text{mm}$ .
3. The pad layout is for reference purposes only.

**Reel Dimensions**

**Unit : mm**

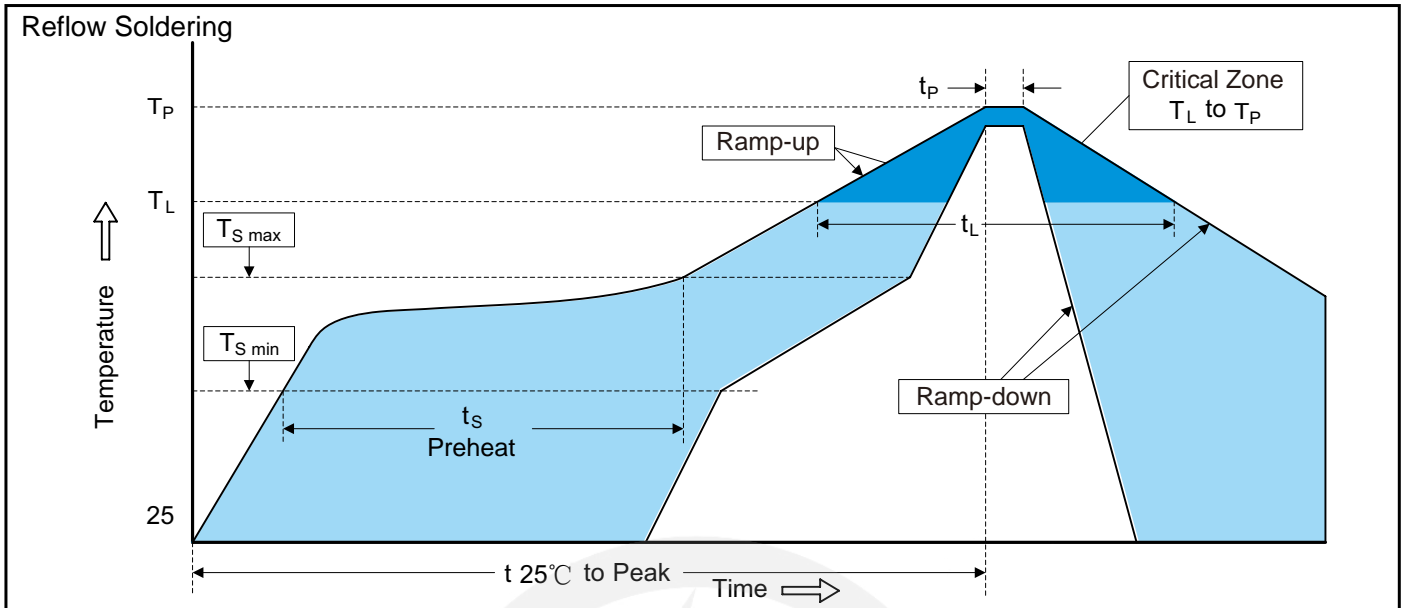
<p>7" Reel</p> 	D2	$\Phi 178.0 \pm 2.0$
	D3	$\Phi 50$
	D4	$13.0 \pm 0.5$
	W1	$12 \pm 0.5$
	Quantity: 8000PCS	

**Packaging**





Recommended Soldering Conditions



Recommended Conditions

Profile Feature	Pb-Free Assembly
Average ramp-up rate (T <sub>L</sub> to T <sub>P</sub> )	3°C/second max.
Preheat	
-Temperature Min (T <sub>S min</sub> )	150°C
-Temperature Max (T <sub>S max</sub> )	200°C
-Time (min to max) (t <sub>s</sub> )	60-180 seconds
T <sub>S max</sub> to T <sub>L</sub>	
-Ramp-up Rate	3°C/second max.
Time maintained above:	
-Temperature (T <sub>L</sub> )	217°C
-Time (t <sub>L</sub> )	60-150 seconds
Peak Temperature (T <sub>P</sub> )	260°C
Time within 5°C of actual Peak Temperature (t <sub>p</sub> )	20-40 seconds
Ramp-down Rate	6°C/second max.
Time 25°C to Peak Temperature	8 minutes max.

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## Version Update Information

Series NO.	Enactment/Revision Date	Effective Date	Version	Revision content	Revision Reason	Revision Person	Note
01	2024.08.18	2024.08.18	3.0	New File	/	Ding	
02	2025.06.12	2025.06.12	3.1	Symbol modification	/	Ding	