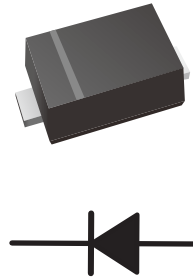


Schottky Diode

Features

- Low current rectification
- Low forward voltage
- UL-94 V-0 / Green EMC
- Matte Tin Lead finish (Pb-Free)
- Lead free in comply with EU RoHS 2011/65/EU directives



Mechanical Data

- Case:SOD-923
- Polarity: Color band denotes cathode end

Ordering Information

Part Number	Marking	Shipping	Reel
LT9L521-30-TR8	F or 6	8000PCS Tape&Reel	7 inches

Absolute Maximum Ratings (Ta = 25°C)

Symbol	Parameter	Value	Unit
V _{RRM}	Repetitive Peak Reverse Voltage	30	V
V _R	Reverse Voltage	30	V
I _O	Continuous Forward Current	100	mA
I _{FSM}	Non-Repetitive Peak Forward Current *1	500	mA
T _J	Junction Temperature	125	°C
T _{STG}	Storage Temperature	-55 to +125	°C

*1: 8.3ms Single Half Sine-Wave

Electrical Characteristics (Ta = 25°C)

Symbol	Parameter	Conditions	Min	TYP	Max	Unit
V _F	Forward Voltage	I _F = 10mA			0.35	V
		I _F = 20mA			0.40	V
BV _R	Breakdown Voltage	I _R = 100μA	30			V
I _R	Reverse Current	V _R = 10V			10	μA
		V _R = 30V			50	μA



Characteristic Curves

Fig.1 Forward Characteristics

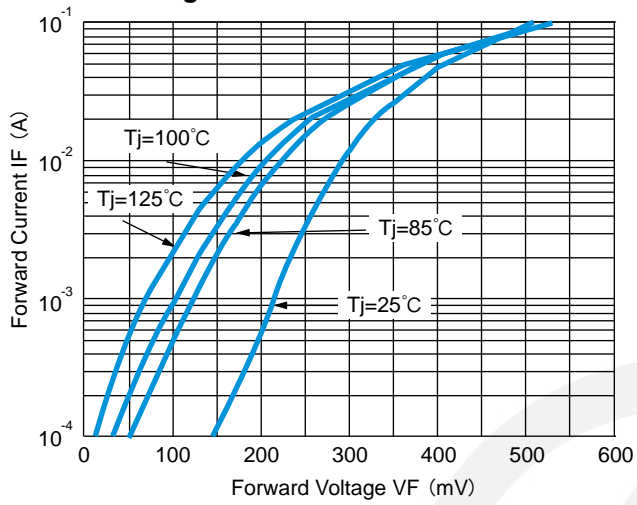


Fig.2 Reverse Characteristics

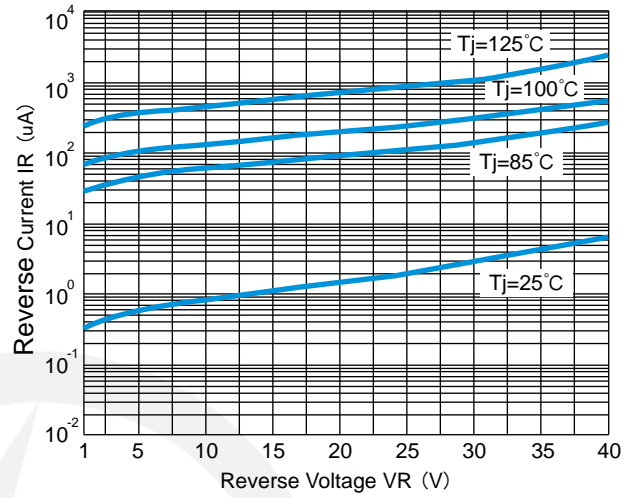


Fig.3 Power Derating Curve

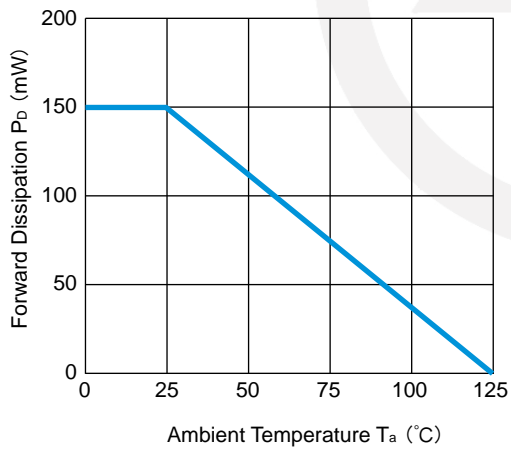
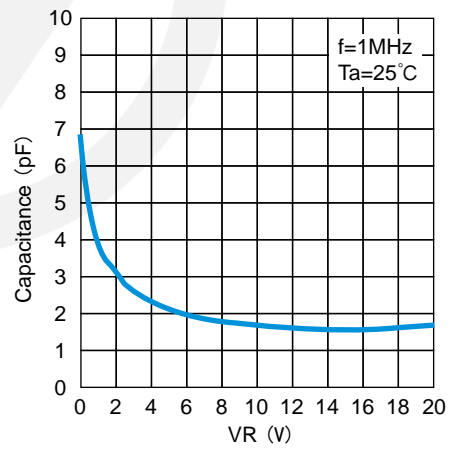
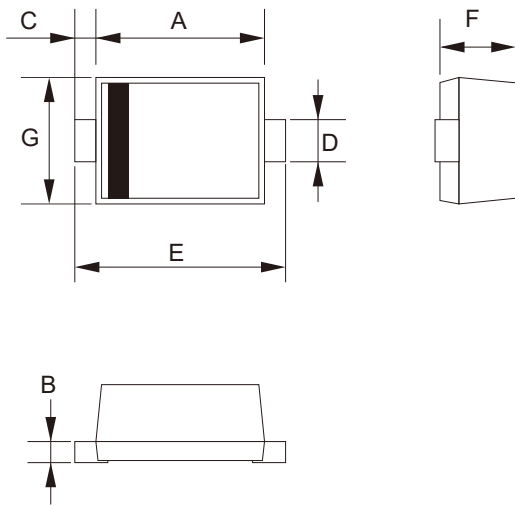


Fig.4 CT vs VR



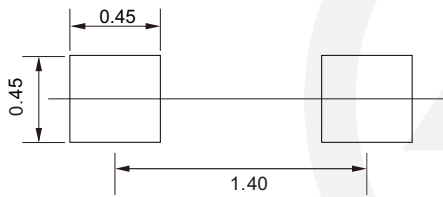
SOD-923 Package Outline



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

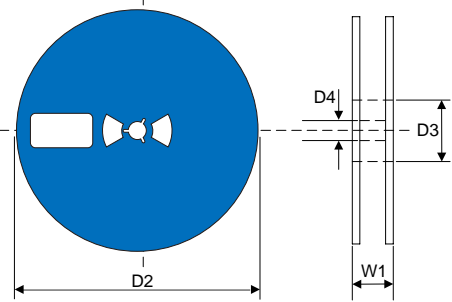


Note:

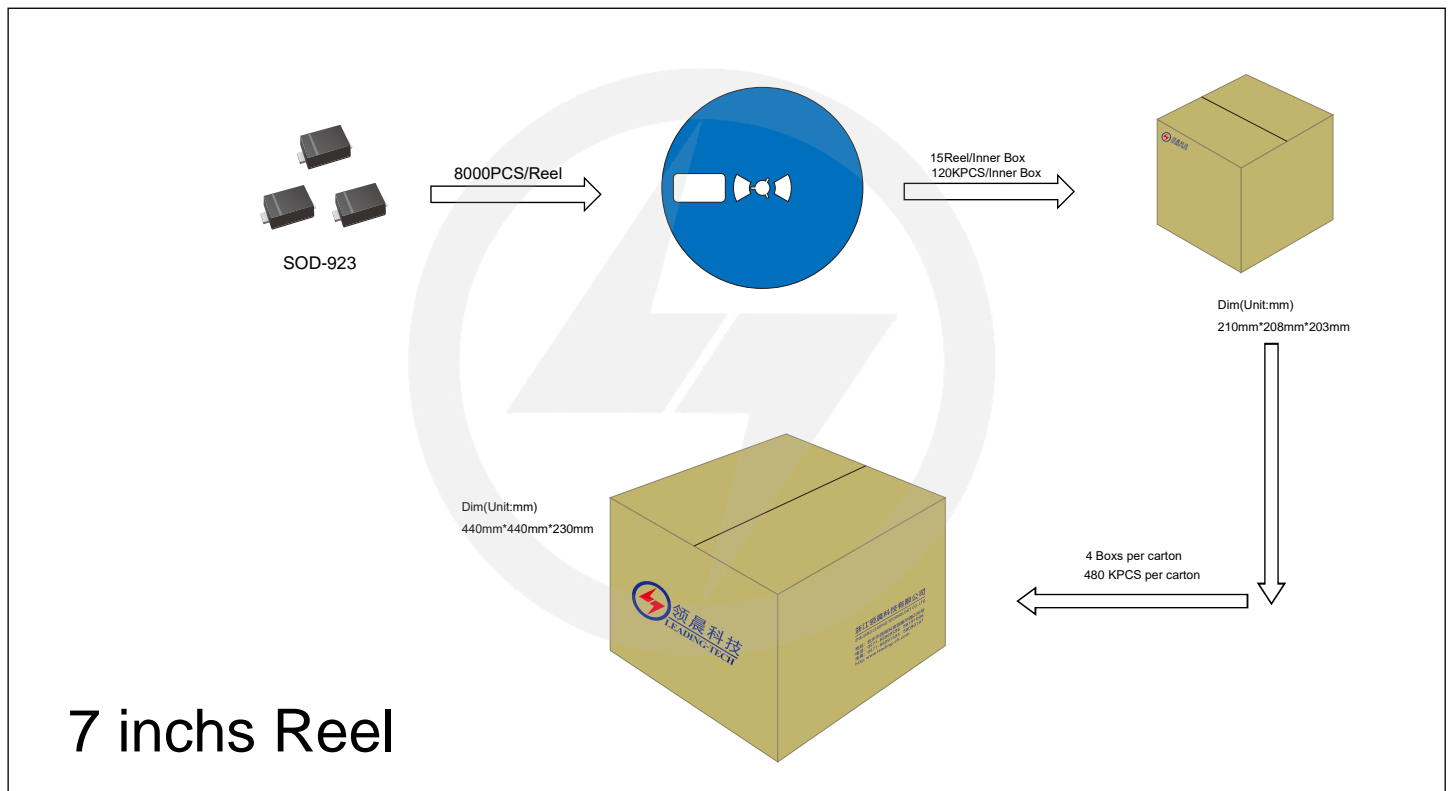
1. Controlling dimension: in millimeters.
2. General tolerance: $\pm 0.05\text{mm}$.
3. The pad layout is for reference purposes only.

Reel Dimensions

Unit : mm

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

Packaging





Recommended Soldering Conditions



Recommended Conditions

Profile Feature	Pb-Free Assembly
Average ramp-up rate (T _L to T _P)	3°C/second max.
Preheat	
-Temperature Min (T _{S min})	150°C
-Temperature Max (T _{S max})	200°C
-Time (min to max) (t _s)	60-180 seconds
T _{S max} to T _L	
-Ramp-up Rate	3°C/second max.
Time maintained above:	
-Temperature (T _L)	217°C
-Time (t _L)	60-150 seconds
Peak Temperature (T _P)	260°C
Time within 5°C of actual Peak Temperature (t _p)	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	2024.04.16	2024.04.16	3.0	New File	/	Ding	
02	2025.06.17	2025.06.17	3.1	Modify symbols	/	Ding	