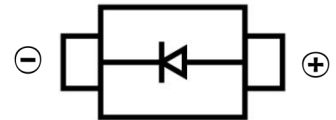


SCHOTTKY BARRIER DIODE**FEATURES**

- Low Forward Voltage
- Low Reverse voltage leakage current
- Small Surface Mount device
- For Low Current Rectifier Circuits Applications

**SOD-523****MECHANICAL DATA**

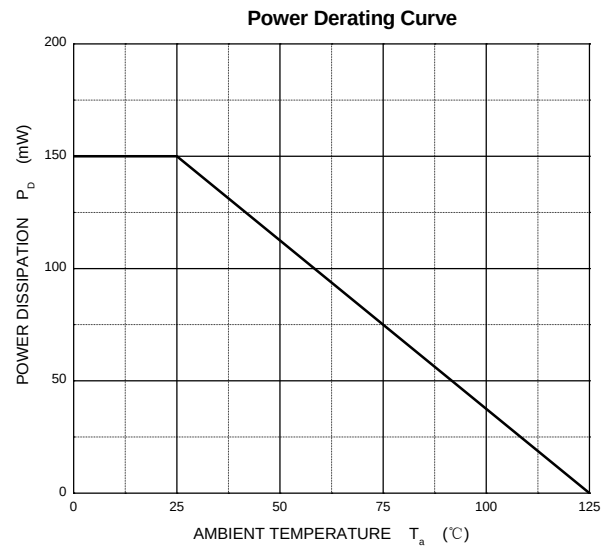
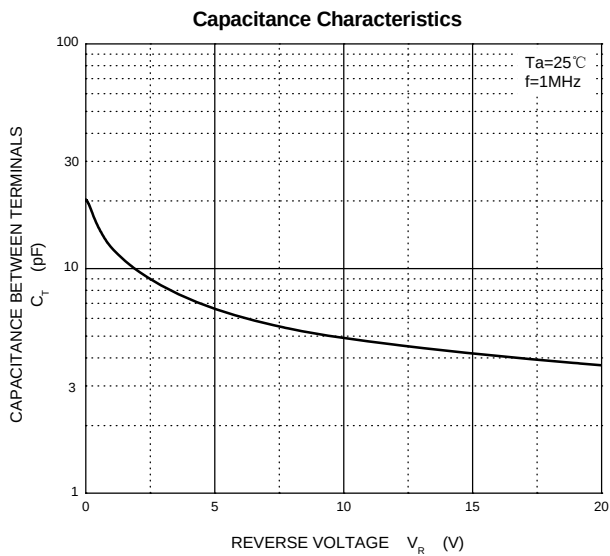
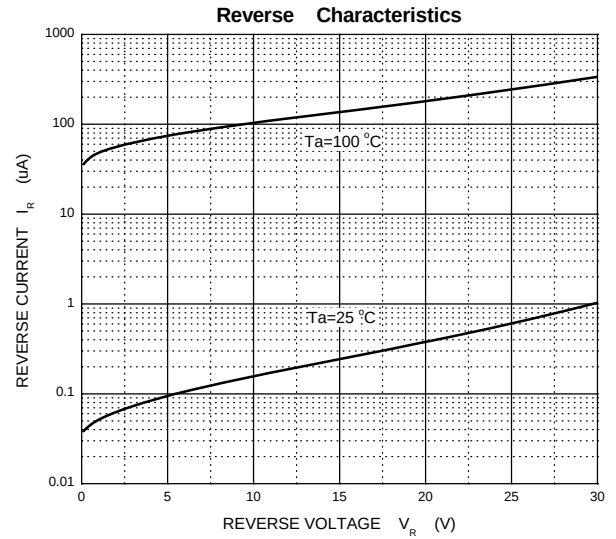
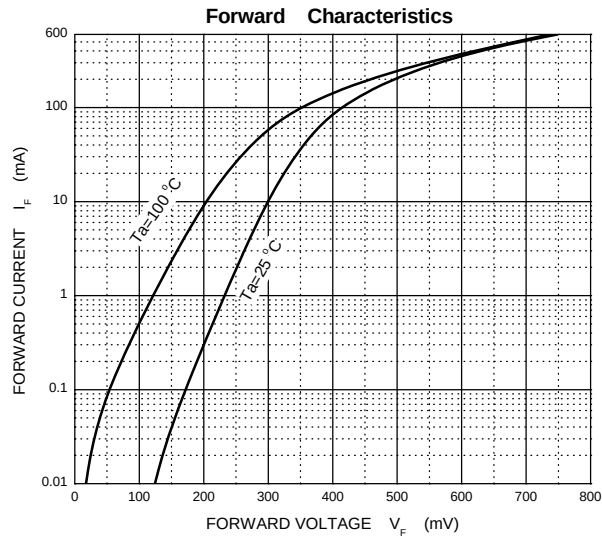
- Case: SOD-523
- Case Material: Molded Plastic. UL Iammability
- Classification Rating: 94V-0
- Moisture Sensitivity: Level 1 per J-STD-020
- Weight: 0.0015 grams (approximate)

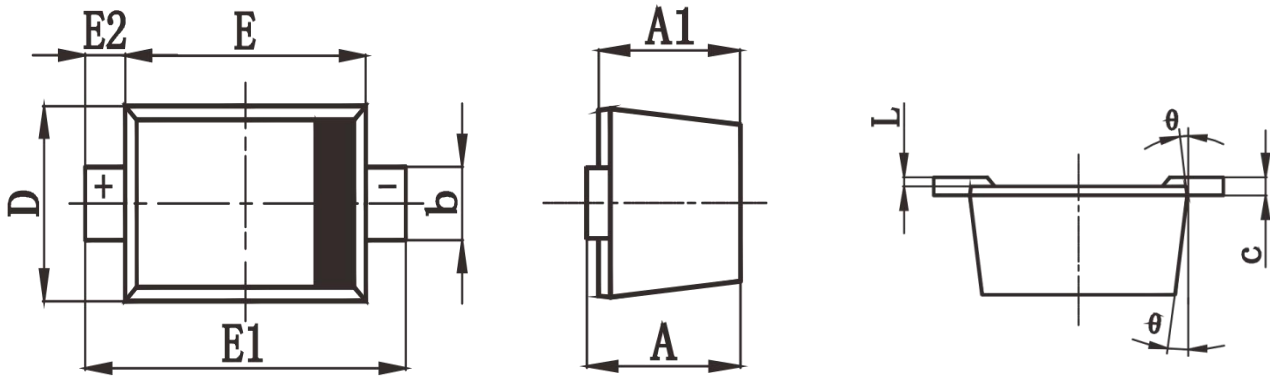
**MAXIMUM RATINGS (T_A = 25°C unless otherwise noted)**

Parameter	Symbol	Value	Unit
Reverse Voltage	V _R	30	V
Non-Repetitive Peak Forward Surge Current @ t = 8.3 ms	I _{FSM}	1	A
Mean rectifying current	I _O	200	mA
Power Dissipation	P _D	150	mW
Thermal Resistance From Junction To Ambient	R _{θJA}	667	°C/W
Junction Temperature	T _J	125	°C
Storage Temperature	T _{STG}	-55 ~+150	°C

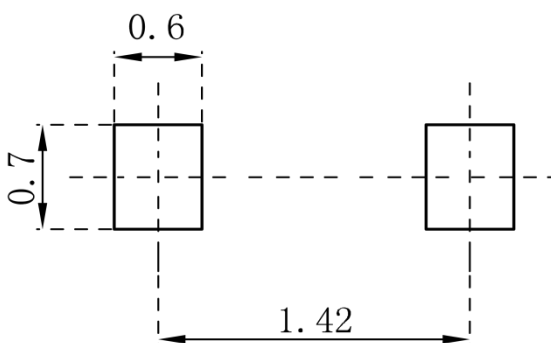
ELECTRICAL CHARACTERISTICS (T_A = 25°C unless otherwise specified)

Parameter	Symbol	Min	Max	Unit	Conditions
Forward voltage	V _F		0.60	V	I _F =200mA
Reverse voltage leakage current	I _R		1	uA	V _R =10V

SCHOTTKY BARRIER DIODE**Typical Characteristics**

SCHOTTKY BARRIER DIODE**SOD-523 Package Outline Dimensions**

Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min.	Max.	Min.	Max.
A	0.510	0.770	0.020	0.031
A1	0.010	0.070	0.001	0.003
A2	0.500	0.700	0.020	0.028
b	0.250	0.350	0.010	0.014
c	0.080	0.150	0.003	0.006
D	0.750	0.850	0.030	0.033
E	1.100	1.300	0.043	0.051
E1	1.500	1.700	0.059	0.067
L	0.200 REF		0.008 REF	
L1	0.250	0.400	0.010	0.016
θ	0°	8°	0°	8°

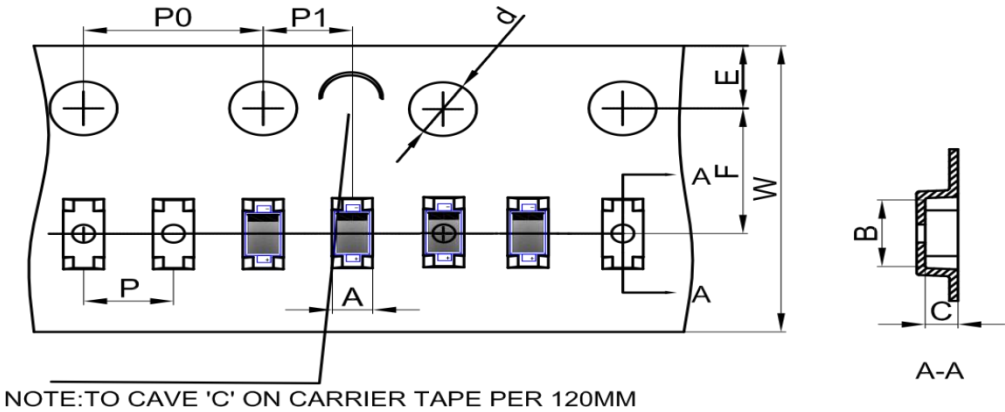
SOD-523 Suggested Pad Layout**Note:**

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

SCHOTTKY BARRIER DIODE

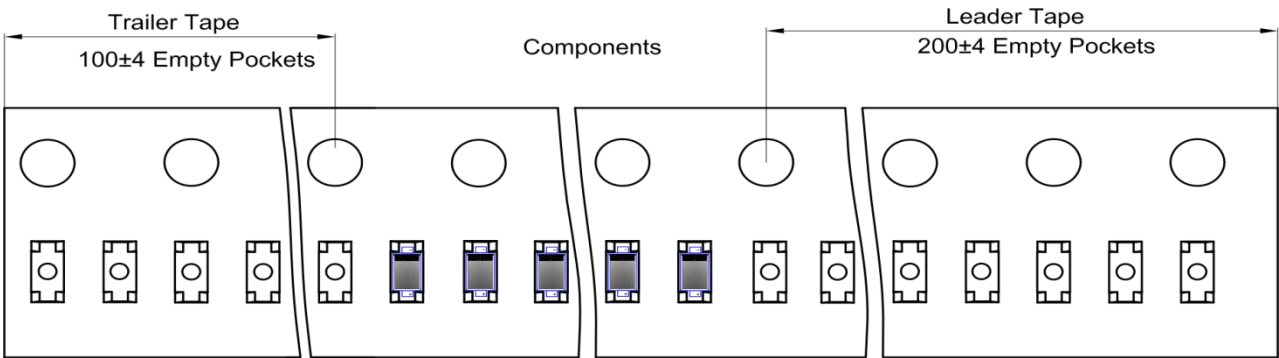
SOD-523 Tape and Reel

SOD-523 Embossed Carrier Tape

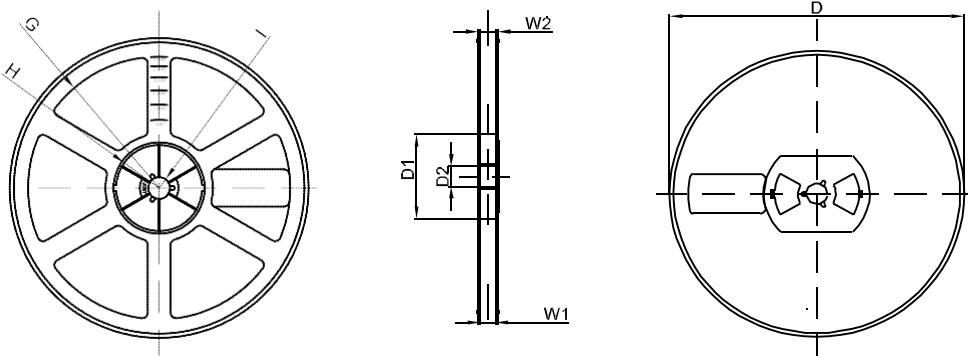


DIMENSIONS ARE IN MILLIMETER										
TYPE	A	B	C	d	E	F	P0	P	P1	W
SOD-523	0.90	1.94	0.73	Ø1.50	1.75	3.50	4.00	2.00	2.00	8.00
TOLERANCE	±0.1	±0.1	±0.1	±0.1	±0.1	±0.1	±0.1	±0.1	±0.1	±0.1

SOD-523 Tape Leader and Trailer



SOD-523 Reel



DIMENSIONS ARE IN MILLIMETER								
REEL OPTION	D	D1	D2	G	H	I	W1	W2
7" DIA	Ø178	54.40	13.00	R78	R25.60	R6.50	9.50	12.30
TOLERANCE	±2	±1	±1	±1	±1	±1	±1	±1