

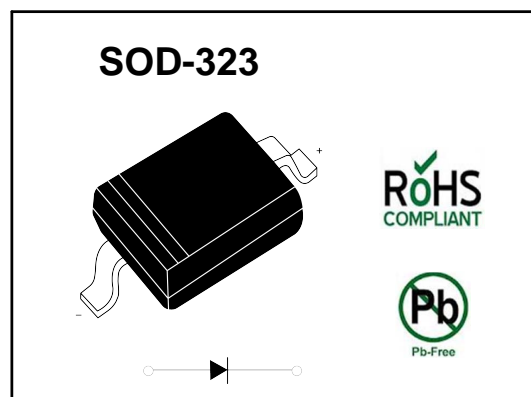
### SILICON EPITAXIAL SCHOTTKY BARRIER DIODE

#### PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode

#### Applications

- Super-high speed switching circuit
- Small current rectification



#### Absolute Maximum Ratings ( $T_a = 25\text{ }^{\circ}\text{C}$ )

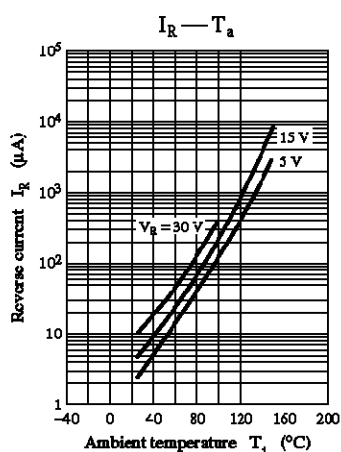
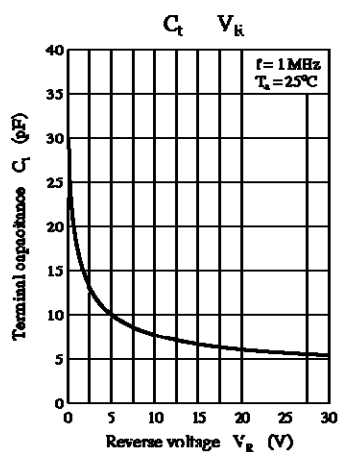
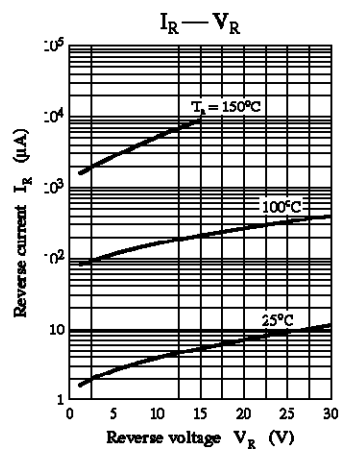
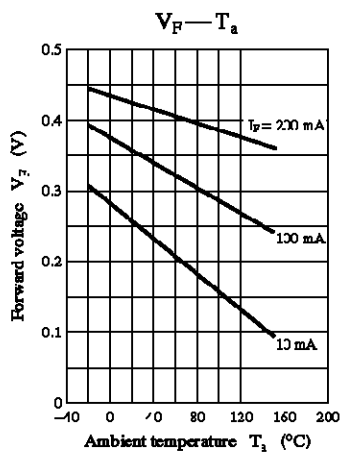
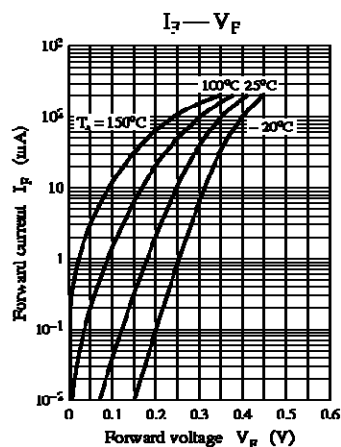
Parameter	Symbol	Value	Unit
Repetitive Peak Reverse Voltage	$V_{RRM}$	30	V
Reverse Voltage	$V_R$	30	V
Average Forward Current	$I_O$	200	mA
Maximum (Peak) Forward Current	$I_{FM}$	300	mA
Non-repetitive Peak Forward Surge Current <sup>1)</sup>	$I_{FSM}$	1	A
Junction Temperature	$T_J$	150	$^{\circ}\text{C}$
Storage Temperature Range	$T_{stg}$	- 55 to + 150	$^{\circ}\text{C}$

<sup>1)</sup> The peak-to-peak value in one cycle of 50 Hz sine-wave (non-repetitive)

#### Characteristics at $T_a = 25\text{ }^{\circ}\text{C}$

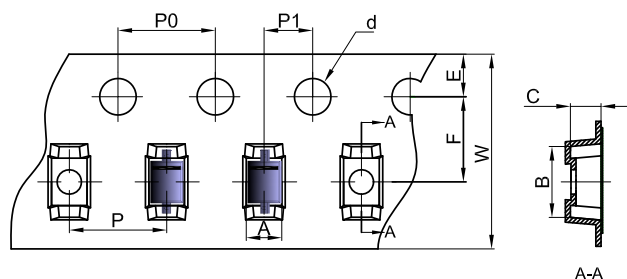
Parameter	Symbol	Typ.	Max.	Unit
Forward Voltage at $I_F = 200\text{ mA}$	$V_F$	-	0.55	V
Reverse Current at $V_R = 30\text{ V}$	$I_R$	-	50	$\mu\text{A}$
Terminal Capacitance at $f = 1\text{ MHz}$	$C_T$	30	-	pF
Reverse Recovery Time at $I_F = I_R = 100\text{ mA}$ , $I_{rr} = 10\text{ mA}$ , $R_L = 100\text{ }\Omega$	$t_{rr}$	3	-	ns

### Typical Characteristics



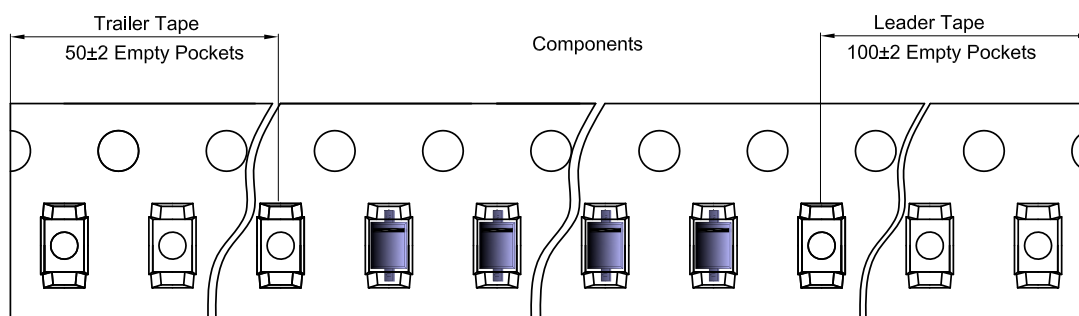
### SOD-323 Tape and Reel

#### SOD-323 Embossed Carrier Tape

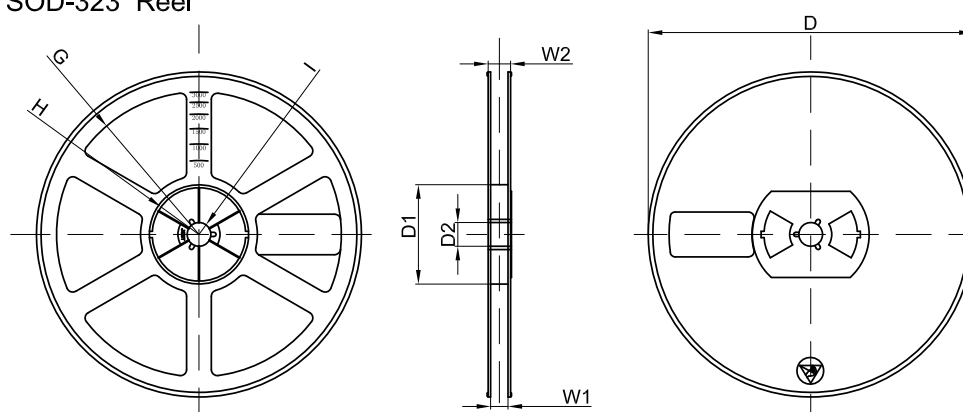


Dimensions are in millimeter										
Pkg type	A	B	C	d	E	F	P0	P	P1	W
SOD-323	1.48	3.3	1.25	Ø1.50	1.75	3.50	4.00	4.00	2.00	8.00

#### SOD-323 Tape Leader and Trailer



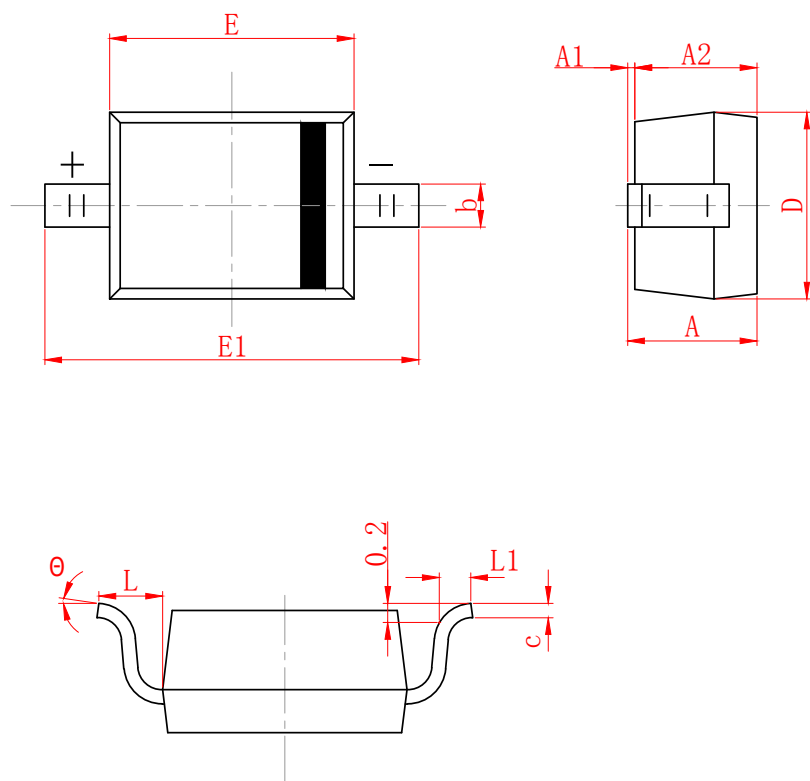
#### SOD-323 Reel



Dimensions are in millimeter								
Reel Option	D	D1	D2	G	H	I	W1	W2
7" Dia	Ø178.00	54.40	13.00	R78.00	R25.60	R6.50	9.50	12.30

REEL	Reel Size	Box	Box Size(mm)	Carton	Carton Size(mm)	G.W.(kg)
3000 pcs	7 inch	45,000 pcs	203×203×195	180,000 pcs	438×438×220	

### SOD-323 Package Outline Dimensions



SYMBOL	MILLIMETER	
	MIN	MAX
A		1.000
A1	0.000	0.100
A2	0.800	0.900
b	0.250	0.350
c	0.008	0.150
D	1.200	1.400
E	1.600	1.800
E1	2.500	2.700
L	0.475 (REF)	
L1	0.250	0.400
$\theta$	0°	8°

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