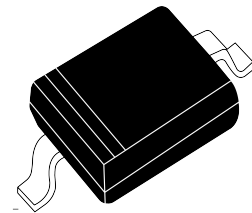


Silicon Epitaxial Planar Switching Diode

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode

SOD-323



ROHS
COMPLIANT



Marking Code: "A4"

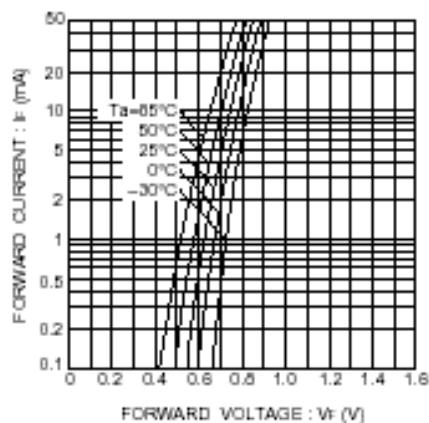
Absolute Maximum Ratings ($T_a = 25^\circ\text{C}$)

Parameter	Symbol	Value	Unit
Peak Repetitive Reverse Voltage	V_{RRM}	70	V
Average Rectified Forward Current	$I_{F(AV)}$	200	mA
Non-Repetitive Peak Forward Current $t = 1\ \mu\text{s}$ $t = 1\ \text{s}$	I_{FSM}	2 1	A
Power Dissipation	P_d	250	mW
Operating Junction Temperature Range	T_j	150	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	- 55 to + 150	$^\circ\text{C}$

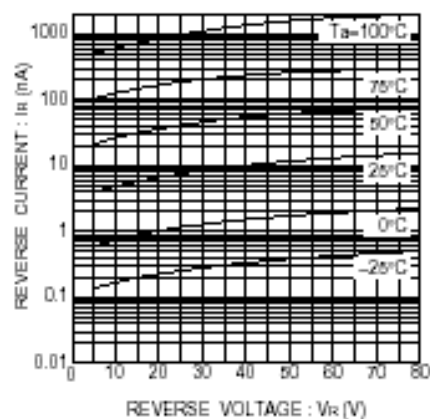
Characteristics at $T_a = 25^\circ\text{C}$

Parameter	Symbol	Min.	Max.	Unit
Reverse Voltage at $I_R = 100\ \mu\text{A}$	V_R	70	-	V
Forward Voltage at $I_F = 1\ \text{mA}$ at $I_F = 10\ \text{mA}$ at $I_F = 50\ \text{mA}$	V_F	- - -	715 855 1	mV mV V
Reverse Voltage at $V_R = 70\ \text{V}$ at $V_R = 25\ \text{V}$, $T_a = 150^\circ\text{C}$ at $V_R = 70\ \text{V}$, $T_a = 150^\circ\text{C}$	I_R	- - -	5 60 100	μA
Reverse Recovery Time at $I_F = I_R = 10\ \text{mA}$ to $I_R = 1\ \text{mA}$, $R_L = 100\ \Omega$	t_{rr}	-	6	ns
Total Capacitance at $V_R = 0$, $f = 1\ \text{MHz}$	C_T	-	1.5	pF

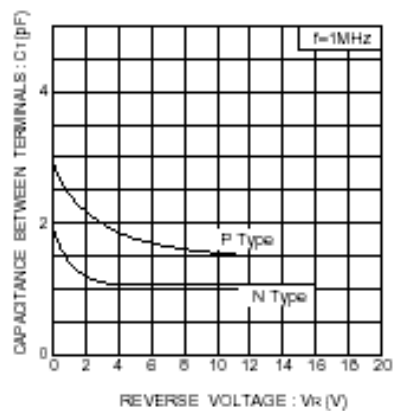
Typical Characteristics



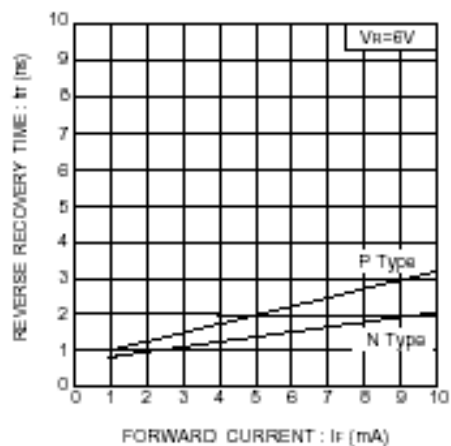
Forward characteristics



Reverse characteristics



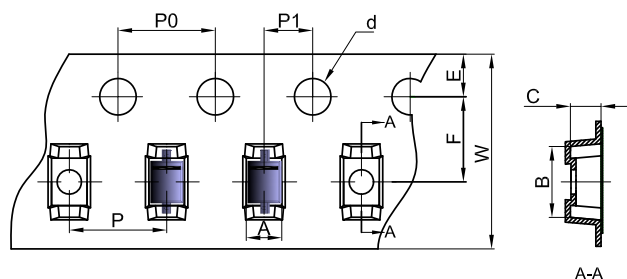
Capacitance between terminals characteristics



Reverse recovery time

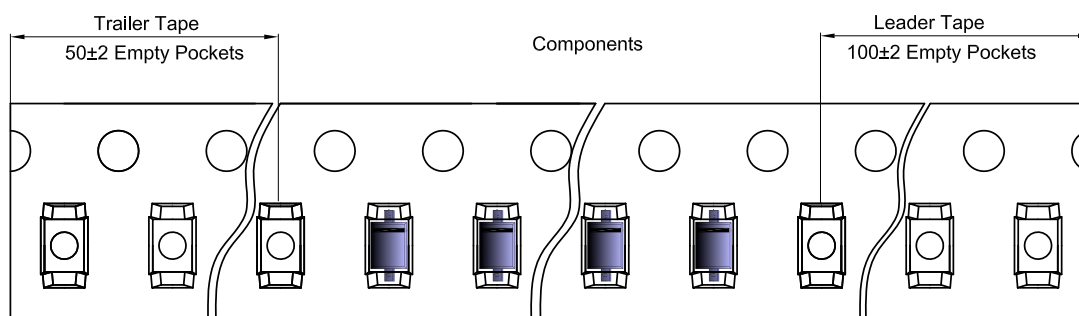
SOD-323 Tape and Reel

SOD-323 Embossed Carrier Tape

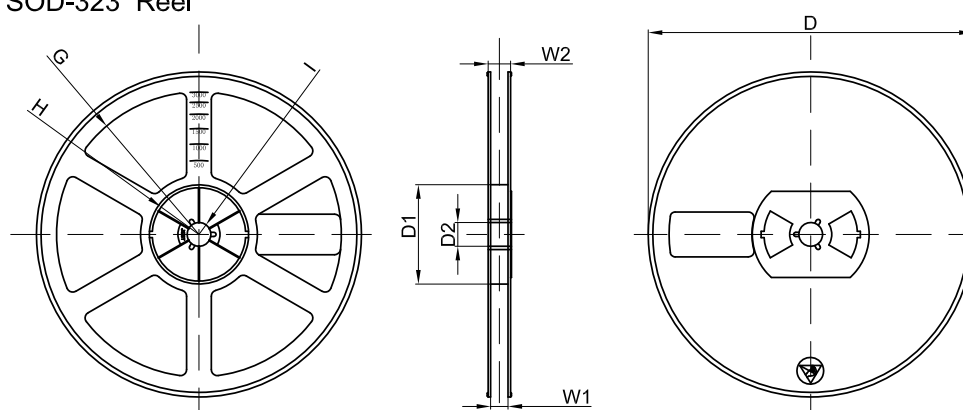


Dimensions are in millimeter										
Pkg type	A	B	C	d	E	F	P0	P	P1	W
SOD-323	1.48	3.3	1.25	Ø1.50	1.75	3.50	4.00	4.00	2.00	8.00

SOD-323 Tape Leader and Trailer



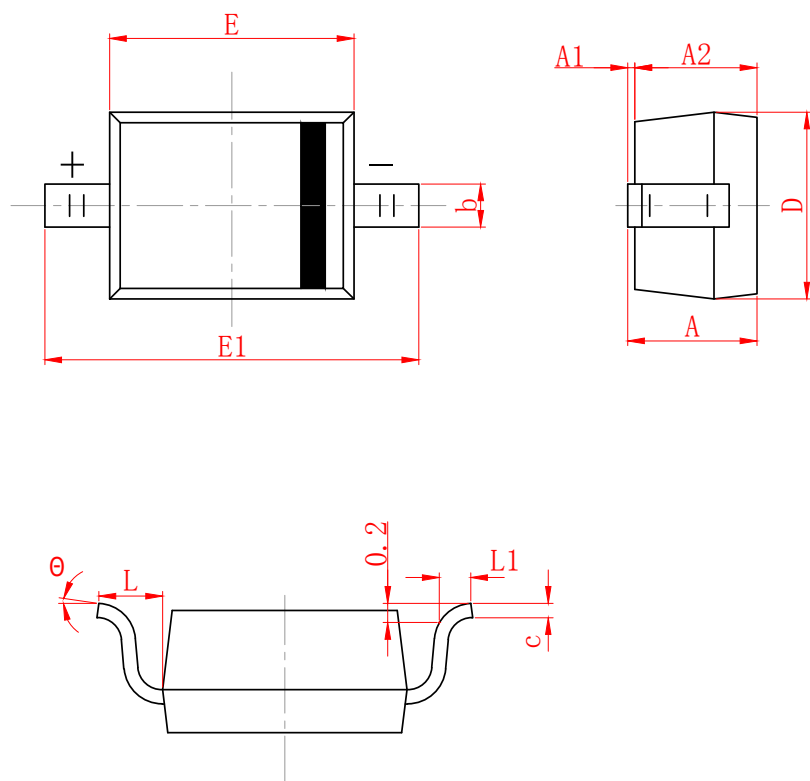
SOD-323 Reel



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
θ	0°	8°

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