

SILICON RF SWITCHING DIODE

Features

- Very low forward resistance
- Small capacitance

Applications

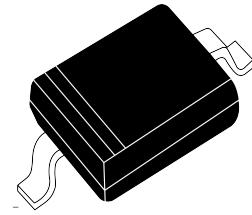
- For band switching in TV/VTR tuners and mobile applications

Marking Code: "W4"

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode

SOD-323



RoHS
COMPLIANT



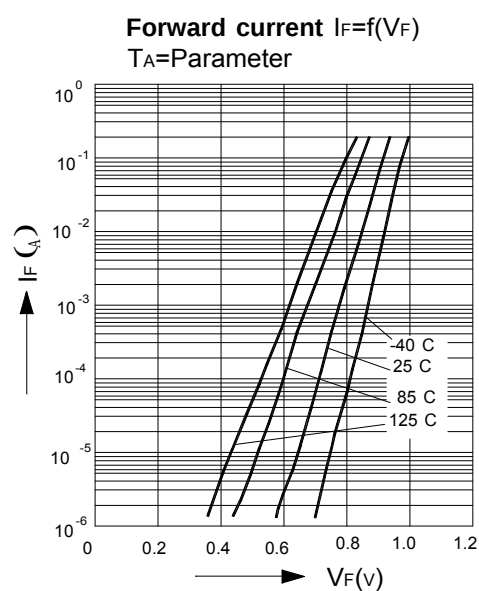
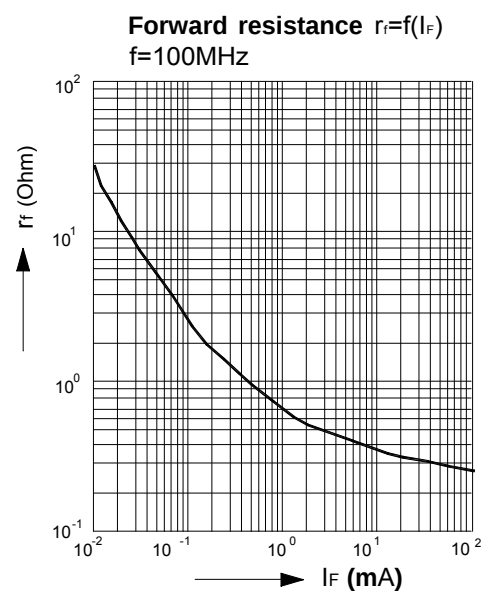
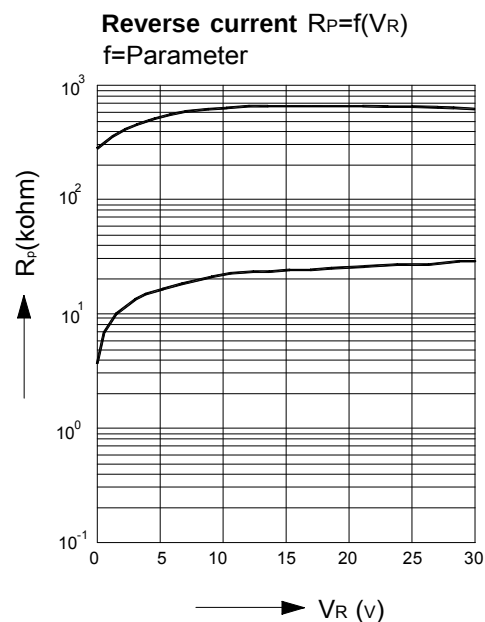
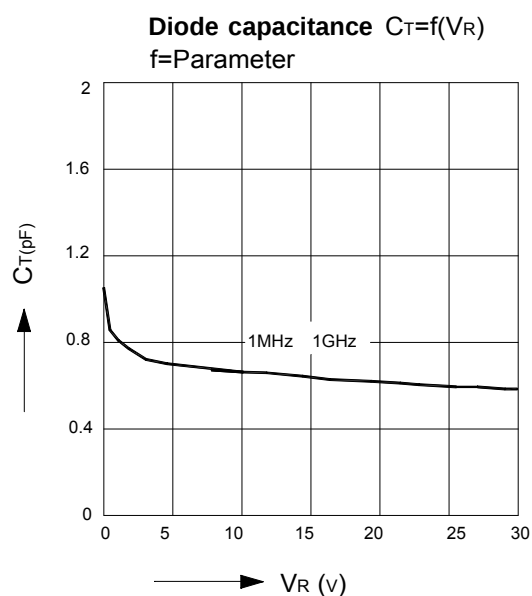
Absolute Maximum Ratings ($T_a = 25^\circ\text{C}$)

Parameter	Symbol	Value	Unit
Diode Reverse Voltage	V_R	35	V
Forward Current	I_F	100	mA
Junction Temperature	T_J	150	$^\circ\text{C}$
Operating Temperature Range	T_{op}	- 55 to + 125	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	- 55 to + 150	$^\circ\text{C}$

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

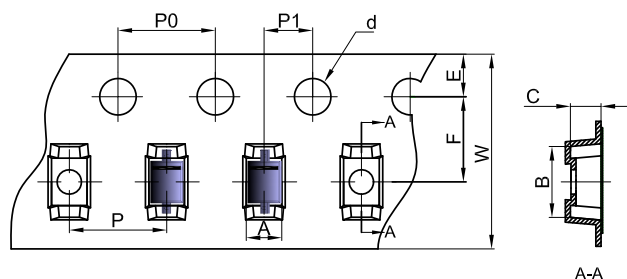
Parameter	Symbol	Min.	Typ.	Max.	Unit
Reverse Current at $V_R = 20\text{ V}$	I_R	-	-	20	nA
Forward Voltage at $I_F = 100\text{ mA}$	V_F	-	-	1	V
Diode Capacitance at $V_R = 1\text{ V}$, $f = 1\text{ MHz}$ at $V_R = 3\text{ V}$, $f = 1\text{ MHz}$	C_T	0.65 0.6	- -	1.4 1.1	pF
Reverse Parallel Resistance at $V_R = 0\text{ V}$, $f = 100\text{ MHz}$	R_P	-	100	-	K Ω
Forward Resistance at $I_F = 3\text{ mA}$, $f = 100\text{ MHz}$ at $I_F = 10\text{ mA}$, $f = 100\text{ MHz}$	r_f	- -	- -	0.7 0.5	Ω
Series Inductance	L_s	-	1.8	-	nH

Typical Characteristics



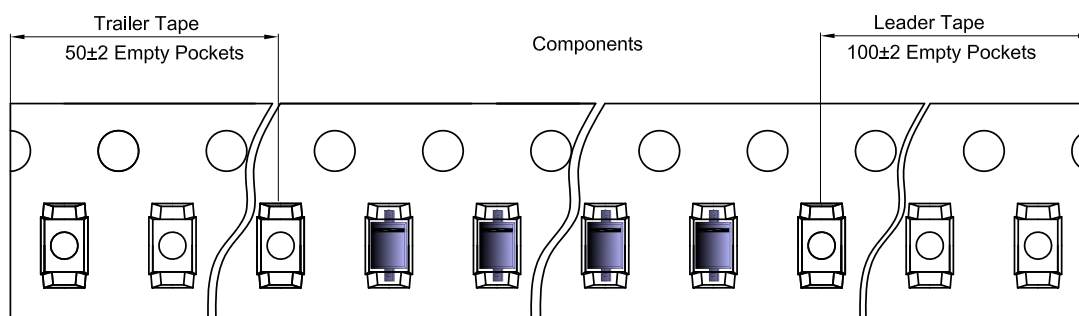
SOD-323 Tape and Reel

SOD-323 Embossed Carrier Tape

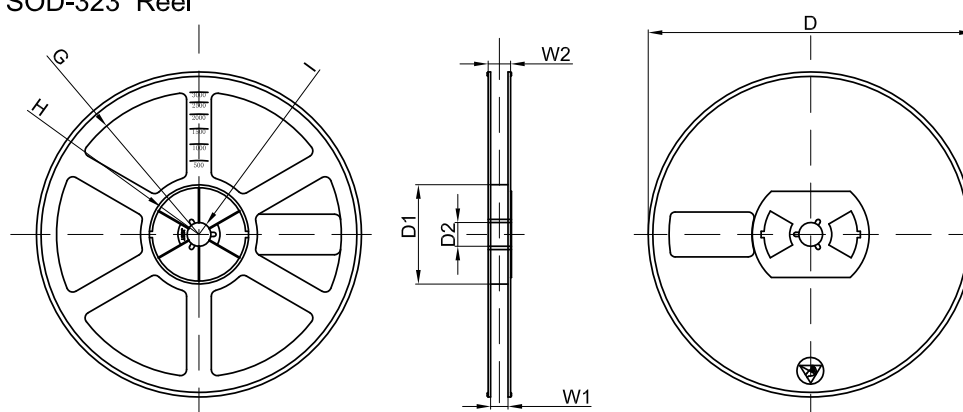


Dimensions are in millimeter										
Pkg type	A	B	C	d	E	F	P0	P	P1	W
SOD-323	1.48	3.3	1.25	Ø1.50	1.75	3.50	4.00	4.00	2.00	8.00

SOD-323 Tape Leader and Trailer



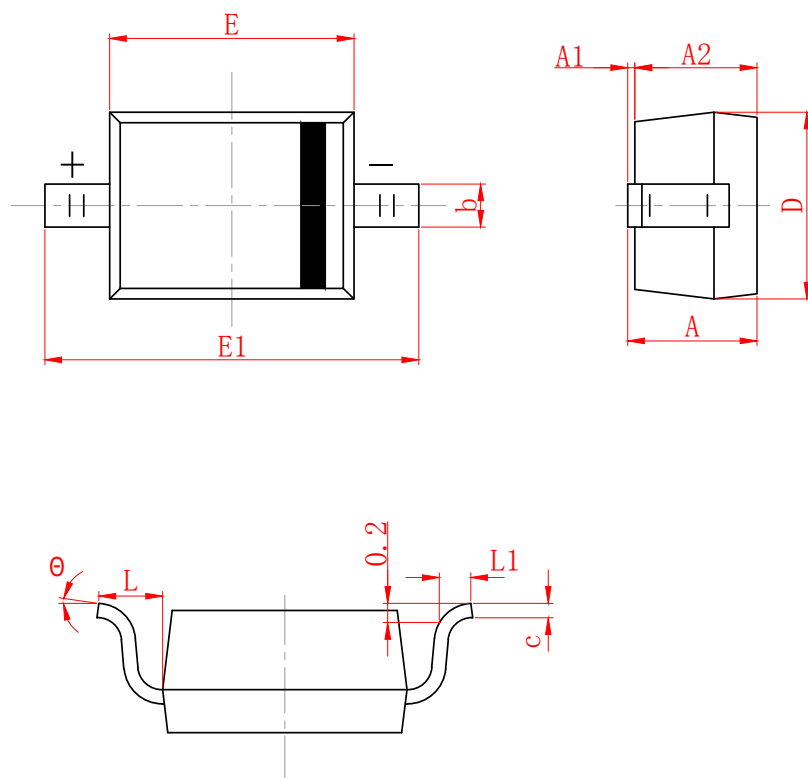
SOD-323 Reel



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
θ	0°	8°

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