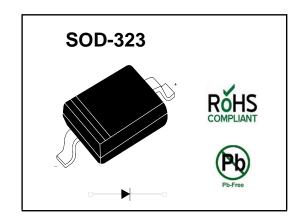


# Silicon Epitaxial Planar Switching Diode

#### **PINNING**

PIN	DESCRIPTION		
1	Cathode		
2	Anode		

Marking Code: "W2"



Absolute Maximum Ratings (T<sub>a</sub> = 25 °C)

Parameter		Symbol	Value	Unit
Repetitive Reverse Voltage		$V_{RRM}$	100	V
Average Rectified Forward Current		I <sub>F(AV)</sub>	200	mA
Non-repetitive Peak Forward Surge Current	at t = 1 s at t = 1 µs	I <sub>FSM</sub>	0.5 1	А
Power Dissipation		P <sub>tot</sub>	200	mW
Thermal Resistance Junction to Ambient		$R_{\theta JA}$	625	°C/W
Junction Temperature		Tj	150	°C
Storage Temperature Range		T <sub>stg</sub>	- 55 to + 150	°C

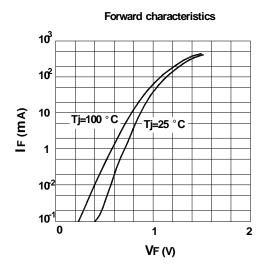
Electrical Characteristics (T<sub>a</sub> = 25°C)

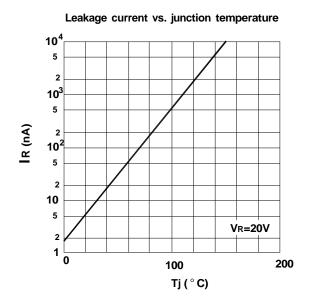
Parameter	Symbol	Min.	Max.	Unit
Forward Voltage at I <sub>F</sub> = 10 mA	V <sub>F</sub>	-	1	V
Reverse Breakdown Voltage at $I_R$ = 5 $\mu A$ at $I_R$ = 100 $\mu A$	V <sub>(BR)R</sub> V <sub>(BR)R</sub>	75 100		V
Reverse Current at $V_R$ = 20 V at $V_R$ = 75 V at $V_R$ = 20 V, $T_J$ = 150 °C	I <sub>R</sub>	- - -	25 5 50	nA μA μA
Total Capacitance at $V_R = 0 \text{ V}$ , $f = 1 \text{ MHz}$	C <sub>tot</sub>	-	4	pF
Reverse Recovery Time at $I_F = I_R = 30$ mA, $R_L = 100 \Omega$ , $I_{RR} = 3$ mA	t <sub>rr</sub>	-	50	ns

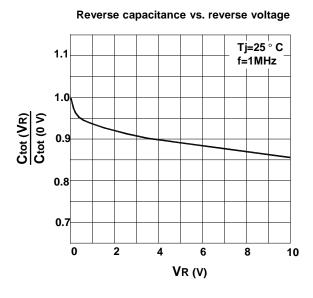
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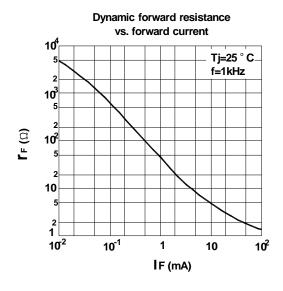


### **Typical Characteristics**







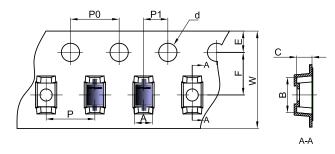


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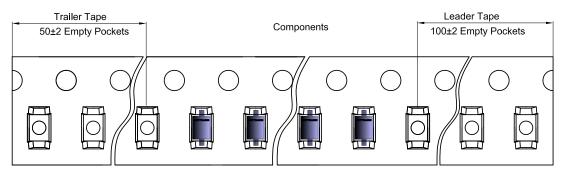
## SOD-323 Tape and Reel

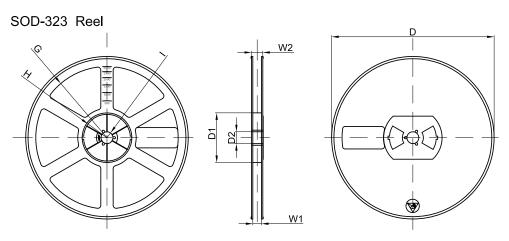
### SOD-323 Embossed Carrier Tape



Dimensions are in millimeter										
Pkg type A B C d E F P0 P P1 W							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





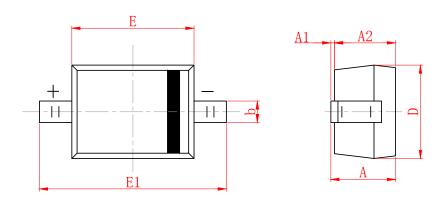
Dimensions are in millimeter								
Reel Option	D	D1	D2	G	Н	Į	W1	W2
7"Dia	Ø178.00	54.40	13.00	R78.00	R25.60	R6.50	9.50	12.30

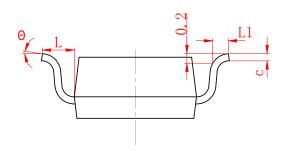
REEL	Reel Size	Вох	Box Size(mm)	Carton	Carton Size(mm)	G.W.(kg)
3000 pcs	7 inch	45,000 pcs	203×203×195	180,000 pcs	438×438×220	

0755-23619906 www.jhgsz.com Rev.01 3 / 4



### **SOD-323 Package Outline Dimensions**





	MILLIMETER				
SYMBOL	MIN	MAX			
A		1. 000			
A1	0.000	0. 100			
A2	0.800	0. 900			
b	0. 250	0. 350			
С	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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