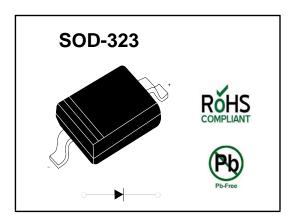


1 A Surface Mount Schottky Barrier Diode

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



Absolute Maximum Ratings (T_a = 25 °C)

Parameter	Symbol	Value	Unit	
	1N5817WS		20	
Reverse Voltage	1N5818WS	V_R	30	V
	1N5819WS		40	
Average Forward Rectified Current	I _{F(AV)}	1	А	
Non-Repetitive Peak Forward Surge Cu	I _{FSM}	9	А	
Power Dissipation	P _{tot}	450	mW	
Operating Temperature Range	T _j	- 55 to + 125	°C	
Storage Temperature Range	T_{stg}	- 55 to + 125	°C	

Characteristics at T_a = 25 °C

Parameter		Symbol	Min.	Max.	Unit
Reverse Breakdown Voltage					
at $I_R = 1 \text{ mA}$	1N5817WS	$V_{(BR)R}$	20	-	V
	1N5818WS	V (BR)R	30	-	V
	1N5819WS		40	-	
Forward Voltage					
at I _F = 1 A	1N5817WS		-	0.45	
	1N5818WS		-	0.55	
	1N5819WS	\/	-	0.6	V
		V_{F}			V
at $I_F = 3 A$	1N5817WS		-	0.75	
	1N5818WS		-	0.875	
	1N5819WS		-	0.9	
Reverse Voltage Leakage Current					
at V _R = 20 V	1N5817WS		-	1	mA
at $V_R = 30 \text{ V}$	1N5818WS	I _R	-	1	mA
at $V_R = 40 \text{ V}$	1N5819WS		-	1	
Total Capacitance	·	_		120	2
at $V_R = 4 V$, $f = 1 MHz$		C_{tot}	-	120	pF

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1N5817WS THRU 1N5819WS

Typical Characteristics

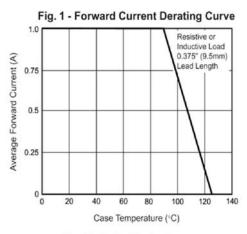
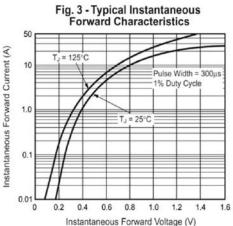
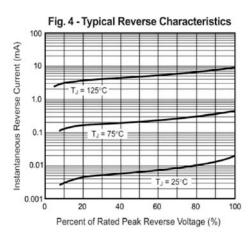
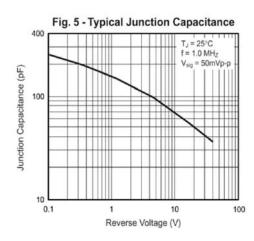


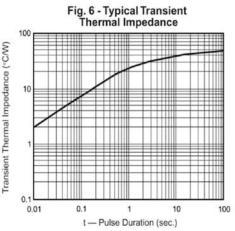
Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

12
(A) 10
10
Number of Cycles at 60 Hz







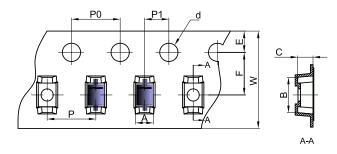


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1N5817WS THRU 1N5819WS

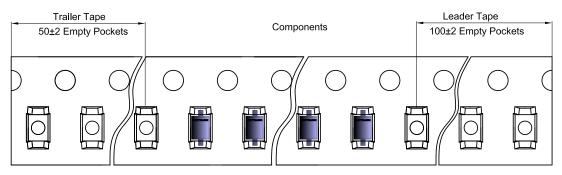
SOD-323 Tape and Reel

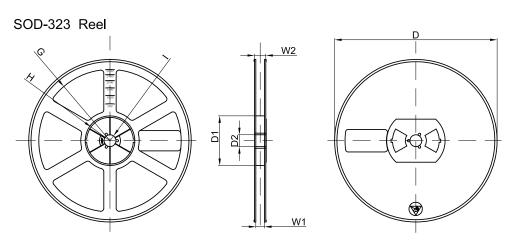
SOD-323 Embossed Carrier Tape



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





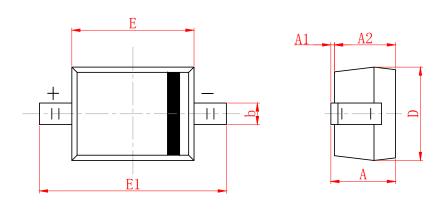
Dimensions are in millimeter								
Reel Option	D	D1	D2	G	Н	Į	W1	W2
7"D i a	Ø178.00	54.40	13.00	R78.00	R25.60	R6.50	9.50	12.30

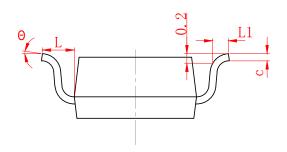
REEL	Reel Size	Box	Box Size(mm)	Carton	Carton Size(mm)	G.W.(kg)
3000 pcs	7 inch	45,000 pcs	203×203×195	180,000 pcs	438×438×220	

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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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