

SCHOTTKY BARRIER DIODE

Features

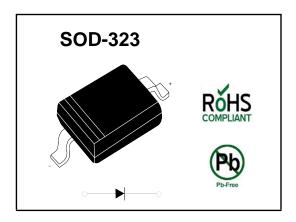
· Medium current schottky rectifier diode

Applications

• For low-loss, fast-recovery, meter protection, bias isolation and clamping applications

PINNING

PIN	DESCRIPTION			
1	Cathode			
2	Anode			



Absolute Maximum Ratings (T_a = 25 °C)

Parameter	Symbol	Value	Unit
Reverse Voltage	V_R	40	V
Average forward current	I _{FAV}	500	mA
Forward Current	I _F	750	mA
Surge Forward Current (t ≤ 10 ms)	I _{FSM}	2.5	Α
Total Power Dissipation	P _{tot}	600	mW
Junction Temperature	TJ	150	°C
Storage Temperature Range	T _{stg}	- 65 to + 150	°C

Characteristics at T_a = 25 °C

Parameter	Symbol	Max.	Unit
Forward Voltage at I_F = 10 mA at I_F = 250 mA	V _F	0.4 0.7	V
Reverse Current at V_R = 30 V at V_R = 30 V, T_a = 65 °C	I _R	50 900	μΑ
Diode Capacitance at V _R = 10 V, f = 1 MHz	Ст	12	pF

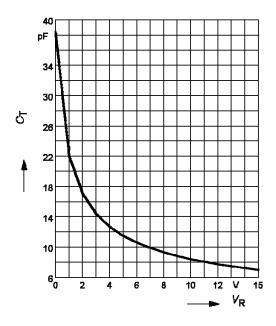
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Typical Characteristics

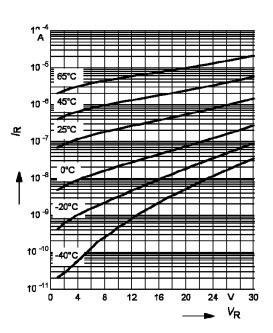
Diode capacitance $C_T = f(V_R)$

f = 1MHz



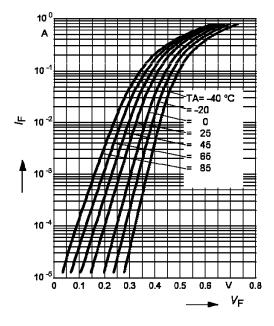
Reverse current $I_R = f(V_R)$

 T_A = Parameter

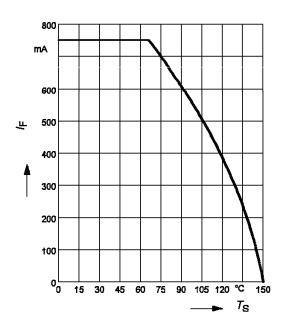


Forward current $I_F = f(V_F)$

 T_A = Parameter



Forward current $I_F = f(T_S)$

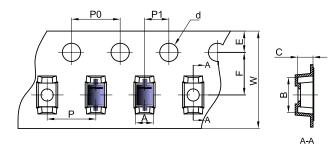


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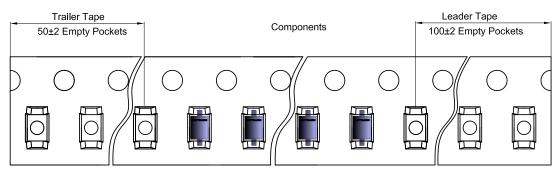
SOD-323 Tape and Reel

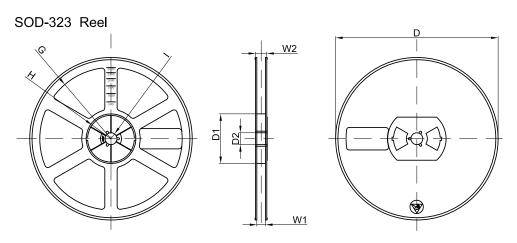
SOD-323 Embossed Carrier Tape



Dimensions are in millimeter										
Pkg type	Α	В	С	d	E	F	P0	Р	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





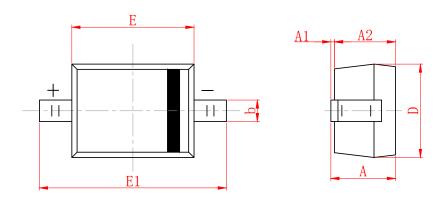
Dimensions are in millimeter								
Reel Option	D	D1	D2	G	Н	l	W1	W2
7"Dia	Ø178.00	54.40	13.00	R78.00	R25.60	R6.50	9.50	12.30

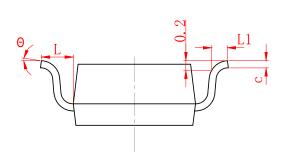
REEL	Reel Size	Вох	Box Size(mm)	Carton	Carton Size(mm)	G.W.(kg)
3000 pcs	7 inch	45,000 pcs	203×203×195	180,000 pcs	438×438×220	

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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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