

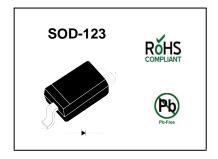
Surface Mount Schottky Barrier Diode

Features

• Very low forward voltage

PINNING

PIN	DESCRIPTION		
1	Cathode		
2	Anode		



Absolute Maximum Ratings (T_a = 25 °C)

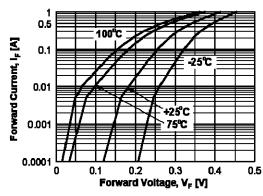
Parameter	Symbol	Value	Unit
Maximum Repetitive Reverse Voltage	V_R	20	V
Average Rectified Forward Current	I _{F(AV)}	0.5	А
Non-Repetitive Peak Forward Current (Surge Applied at Rated Load Conditions Halfwave, Single Phase, 60 Hz)	I _{FSM}	5.5	Α
Thermal Resistance Junction to Lead	$R_{\theta JL}$	150	°C/W
Thermal Resistance Junction to Ambient 1)	$R_{\theta JA}$	340	°C/W
Operating Junction Temperature Range	T _j	- 65 to + 125	°C
Storage Temperature Range	T _{stg}	- 65 to + 150	°С

 $^{^{-1)}}$ FR-4 or FR-5 = 3.5 X 1.5 inches using minimum recommended land pads.

Characteristics (T_a = 25 °C)

Parameter	Symbol	Max.	Unit
Forward Voltage at I_F = 0.1 A at I_F = 0.5 A at I_F = 0.1 A, T_a = 100 °C at I_F = 0.5 A, T_a = 100 °C	V _F	0.3 0.385 0.22 0.33	V
Reverse Current at $V_R = 10 \text{ V}$ at $V_R = 20 \text{ V}$ at $V_R = 10 \text{ V}$, $T_a = 100 \text{ °C}$ at $V_R = 20 \text{ V}$, $T_a = 100 \text{ °C}$	I _R	75 250 5 8	μΑ μΑ mA mA

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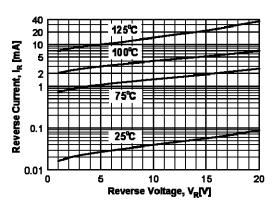


Figure 2. Reverse Current vs Reverse Voltage

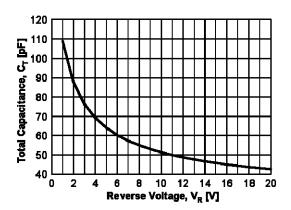


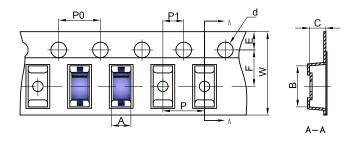
Figure 3. Total Capacitance

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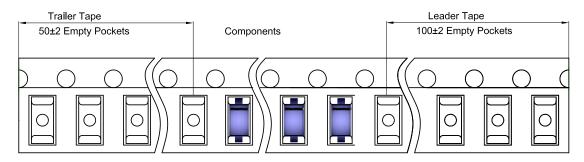
SOD-123 Tape and Reel

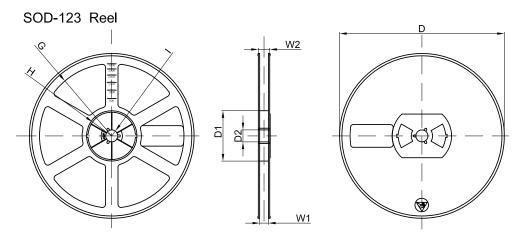
SOD-123 Embossed Carrier Tape



Dimensions are in millimeter										
Pkg type	Α	В	С	d	E	F	P0	Р	P1	W
SOD-123	1.85	3.95	1.57	Ø1.55	1.75	3.50	4.00	4.00	2.00	8.00

SOD-123 Tape Leader and Trailer



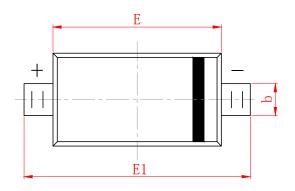


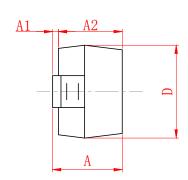
Dimensions are in millimeter								
Reel Option	D	D1	D2	G	Н	Į	W1	W2
7"Dia	Ø178.00	54.40	13.00	R78.00	R25.60	R6.50	9.50	12.30

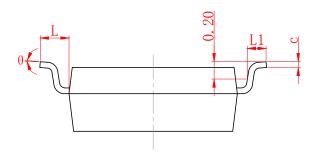
REEL	Reel Size	Вох	Box Size(mm)	Carton	Carton Size(mm)	G.W.(kg)
3000 pcs	7 inch	45,000 pcs	203×203×195	180,000 pcs	438×438×220	

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CAMBOI	MILLIMETER					
SYMBOL	MIN	MAX				
A	1. 050	1. 250				
A1	0. 000	0. 100				
A2	1.050	1. 150				
b	0. 450	0.650				
С	0. 008	0. 150				
D	1. 500	1. 700				
Е	2.600	2.800				
E1	3. 550	3.850				
L	0. 500	(REF)				
L1	0. 250	0. 450				
θ	0°	8°				

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