

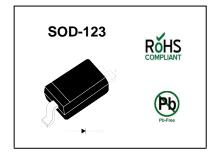
Surface Mount Schottky Barrier Diode

Features

- Very low forward voltage
- High Current Capability

PINNING

PIN	DESCRIPTION	
1	Cathode	
2	Anode	



Absolute Maximum Ratings (T_a = 25 °C)

Parameter	Symbol	Value	Unit
Peak Reverse Voltage	V_{RRM}	20	V
Working Peak Reverse Voltage	V_{RWM}	20	V
DC 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 Ambient	$R_{ heta JA}$	340	°C/W
Thermal Resistance Junction to Lead	$R_{ heta JL}$	150	°C/W
Junction Temperature	Tj	- 65 to + 150	°C
Storage Temperature	T _{stg}	- 65 to + 150	°C

¹⁾ Following any rated load condition and with rated VRRM applied.

Characteristics at Ta = 25 °C

Parameter	Symbol	Max.	Unit
Forward Voltage at $I_F = 0.1 \text{ A}$, $T_j = 25 ^{\circ}\text{C}$ at $I_F = 0.5 \text{ A}$, $T_j = 25 ^{\circ}\text{C}$ at $I_F = 0.1 \text{ A}$, $T_j = 100 ^{\circ}\text{C}$ at $I_F = 0.5 \text{ A}$, $T_j = 100 ^{\circ}\text{C}$	V _F	0.375 0.44 0.26 0.36	V
Reverse Current at $V_R = 10 \text{ V}$, $T_j = 25 \text{ °C}$ at $V_R = 20 \text{ V}$, $T_j = 25 \text{ °C}$ at $V_R = 10 \text{ V}$, $T_j = 100 \text{ °C}$ at $V_R = 20 \text{ V}$, $T_j = 100 \text{ °C}$	I _R	40 150 3 7	μΑ μΑ mA mA
Total Capacitance at V _R = 5 V (test signal range 100 KHz to 1 MHz), T _j = 25 °C	C _{tot}	110	pF

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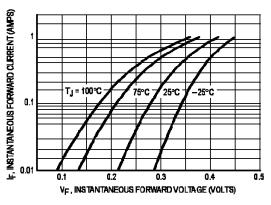


Figure 1. Typical Forward Voltage

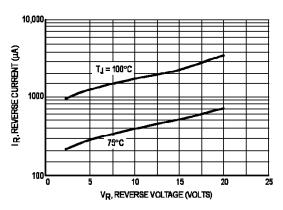


Figure 2. Typical Reverse Current

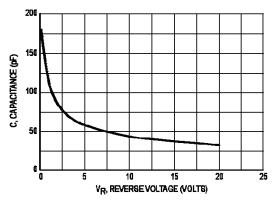


Figure 3. Typical Capacitance

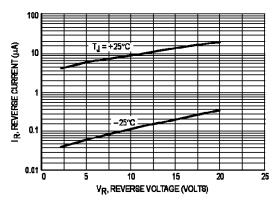
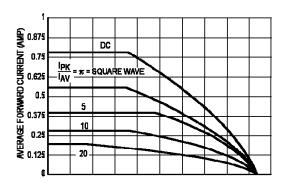
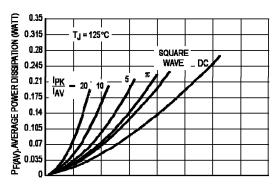


Figure 4. Typical Reverse Current



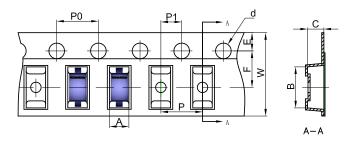


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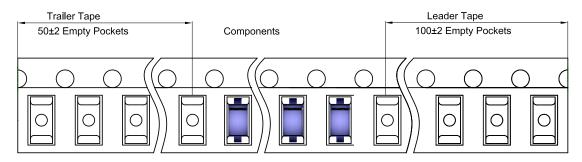
SOD-123 Tape and Reel

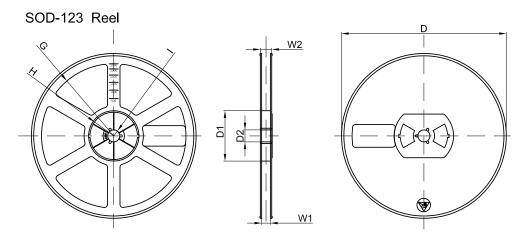
SOD-123 Embossed Carrier Tape



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

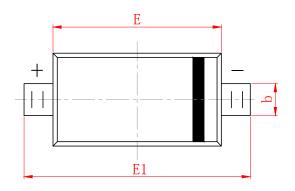


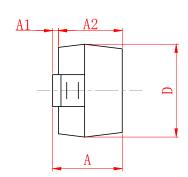


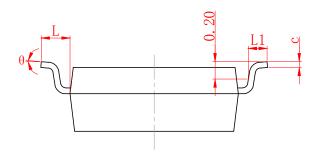
Dimensions are in millimeter								
Reel Option	D	D1	D2	G	Н	Į	W1	W2
7"Dia	Ø178.00	54.40	13.00	R78.00	R25.60	R6.50	9.50	12.30

REEL	Reel Size	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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	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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