Lastinght

MBR0540

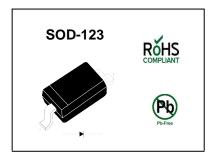
PINNING

Surface Mount Schottky Barrier Diode

Features

- · Low forward voltage
- High conductance

Р	IN	DESCRIPTION
	1	Cathode
:	2	Anode



Absolute Maximum Ratings (T_a = 25 °C)

Parameter	Symbol	Value	Unit
Peak Repetitive Reverse Voltage	V _{RRM}	40	V
Reverse Voltage	V _R	40	V
Average Rectified Forward Current	I _{F(AV)}	500	mA
Non-Repetitive Peak Forward Surge Current (Half Wave, Single Phase, 60 Hz)	I _{FSM}	5.5	A
Thermal Resistance Junction to Lead ¹⁾	R _{θJL}	118	°C/W
Thermal Resistance Junction to Ambient ²⁾	R _{0JA}	206	°C/W
Operating Junction Temperature Range	Tj	- 65 to + 150	°C
Storage Temperature Range	T _{stg}	- 65 to + 150	°C

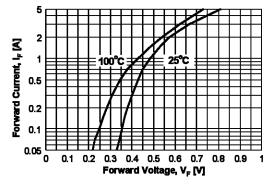
 $\stackrel{(1)}{_{2)}}$ Device mounted on FR-4 PCB 0.013 mm. $\stackrel{(2)}{_{2)}}$ 1 inch" pad size (1 X 0.5 inch for each lead) on FR4 board.

Characteristics at T_a = 25 °C

Parameter	Symbol	Max.	Unit
Forward Voltage at $I_F = 0.5 A$ at $I_F = 1 A$ at $I_F = 0.5 A$, $T_a = 100 \ ^{\circ}C$ at $I_F = 1 A$, $T_a = 100 \ ^{\circ}C$	V _F	0.51 0.62 0.46 0.61	V
Reverse Current at $V_R = 20 V$ at $V_R = 40 V$ at $V_R = 20 V$, $T_a = 100 \circ C$ at $V_R = 40 V$, $T_a = 100 \circ C$	I _R	10 20 5 13	μΑ μΑ mA mA

Lastinght

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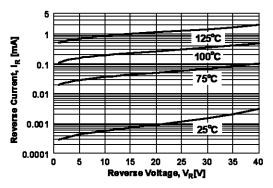


Figure 1. Forward Voltage Characteristics

Figure 2. Reverse Current vs Reverse Voltage

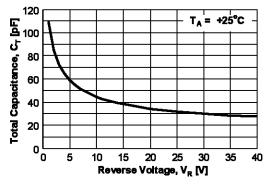
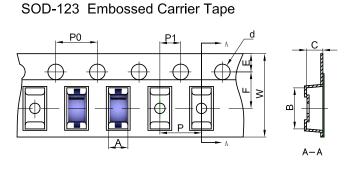


Figure 3. Total Capacitance

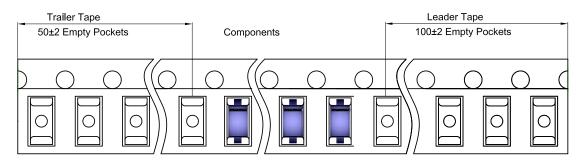
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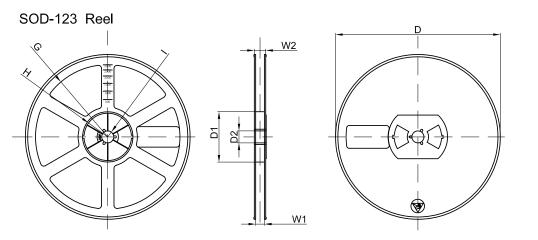
SOD-123 Tape and Reel



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

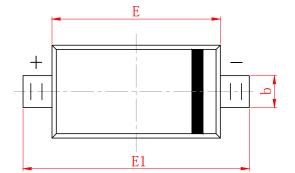
SOD-123 Tape Leader and Trailer

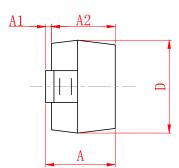




Dimensions are in millimeter								
Reel Option	D	D1	D2	G	н	I	W1	W2
7"Dia	Ø178.00	54.40	13.00	R78.00	R25.60	R6.50	9.50	12.30

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	





	MILLIMETER				
SYMBOL	MIN	MAX			
А	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			
E	2.600	2.800			
E1	3. 550	3.850			
L	0.500	O(REF)			
L1	0. 250	0. 450			
θ	0°	8°			



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