MBR130W

DESCRIPTION

PINNING

PIN

Surface Mount Schottky Barrier Diode

Features

- Low Forward Voltage
- Package Designed for Optimal Automated Board Assembly

1	Cat	hode	
2	An	ode	1
			-
SOD	-123	RŏHS	
		COMPLIANT	

Absolute Maximum Ratings (T_a = 25 °C)

Parameter	Symbol	Value	Unit
Peak Repetitive Reverse Voltage	V _{RRM}	30	V
Working Peak Reverse Voltage	V _{RWM}	30	V
DC Blocking Voltage	V _R	30	V
Average Rectified Forward Current (Rated V _R) T _L = 65 $^{\circ}$ C	I _{F(AV)}	1	А
Non-Repetitive Peak Forward Surge Current (Surge Applied at Rated Load Conditions, Halfware, Single Phase, 60 Hz)	I _{FSM}	5.5	А
Thermal Resistance, Junction to Ambient	R _{0JA}	230 ¹⁾	°C/W
Thermal Resistance, Junction to Lead	R _{θJL}	108 ¹⁾	°C/W
Operating Junction Temperature	Tj	- 65 to + 125	°C
Storage Temperature Range	T _{stg}	- 65 to + 125	°C

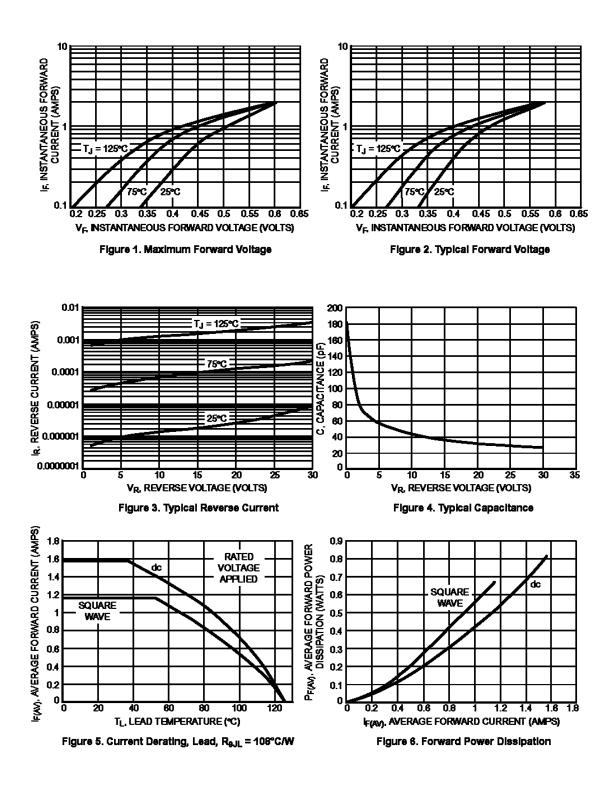
¹⁾ FR-4 or FR-5 = 3.5×1.5 inches using a 1 inch Cu pad.

Characteristics at T_a = 25 °C

Parameter	Symbol	Min.	Max.	Unit
Forward Voltage at $I_F = 0.1 A$ at $I_F = 0.7 A$	V _F	-	0.35 0.5	V
Reverse Breakdown Voltage at I _R = 1 mA	$V_{(BR)R}$	30	-	V
Reverse Current at $V_R = 30 V$ at $V_R = 5 V$	I _R	-	200 50	μΑ

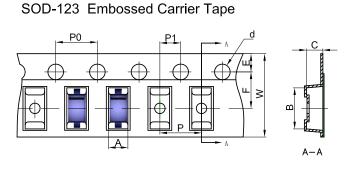
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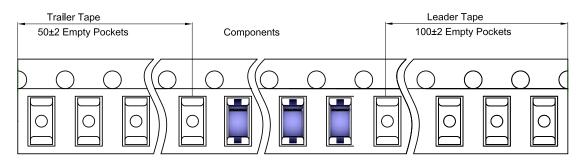
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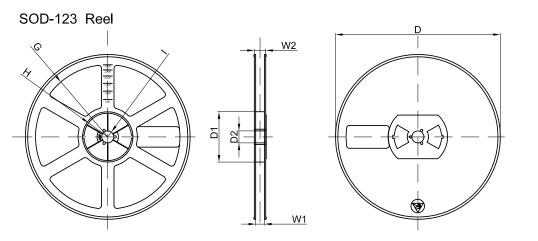
SOD-123 Tape and Reel



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

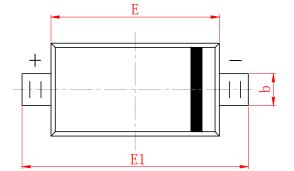
SOD-123 Tape Leader and Trailer

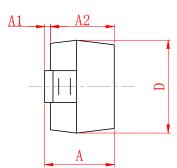




Dimensions are in millimeter								
Reel Option	D	D1	D2	G	н	I	W1	W2
7"Dia	Ø178.00	54.40	13.00	R78.00	R25.60	R6.50	9.50	12.30

ſ	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	





	MILLI	METER	
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)(REF)	
L1	0. 250	0. 450	
θ	0°	8°	



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