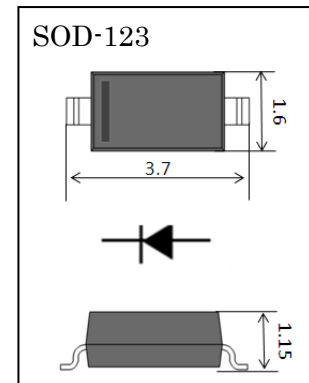


- ◇ High breakdown Voltage
- ◇ Low Forward Voltage Schottky Rectifier
- ◇ **SOD123** Micro SMD package
- ◇ RoHS compliant / Green EMC
- ◇ Matte Tin (Sn) Lead finish
- ◇ Cathode Band / Device marking

Device Marking Code	
BAT46W	S9/L6


Maximum Ratings (Ta = 25 °C)

Symbol	Parameter	value	Units
V_{RM}	Non-Repetitive Peak Reverse Voltage	100	V
V_{RRM}	Repetitive Peak Reverse Voltage	100	V
$V_{R(RMS)}$	RMS Reverse Voltage	70	V
V_{FSM}	Peak forward surge current @=8.3ms	750	mA
I_O	Average Rectified Output Current	150	mA
P_D	Power Dissipation	200	mW
T_J	Junction Temperature	125	°C
T_{STG}	Storage Temperature	-55 to +125	°C

Electrical Characteristics (Ta = 25 °C)

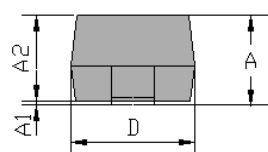
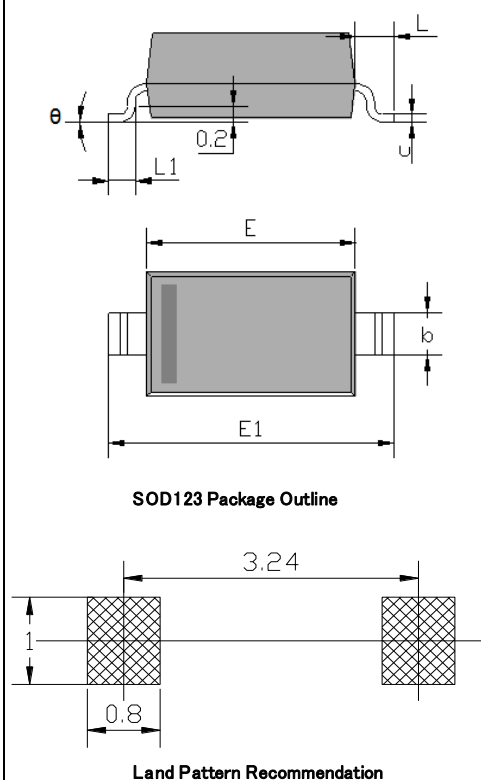
Symbol	Parameter	Test Conditions	Min	Max	Units
V_{BR}	Reverse Breakdown Voltage	$I_R=100\mu A$	100		
V_F	Forward Voltage	$I_F=0.1mA$ $I_F=10mA$ $I_F=250mA$		0.25 0.45 1	V
I_R	Reverse current	$V_R=10V$ $V_R=50V$ $V_R=75V$		0.8 2.0 5.0	μA

Electrical Characteristics (Ta = 25 °C)

Symbol	Parameter	Test Conditions	Min	Max	Units
Ctot	Total capacitance	V _R =0V,f=1MHz V _R =1V,f=1MH		10 6	pF

Ordering Information

Device	Package	Shipping	Tape wide	Emboss pitch	Tape specification	Notes
BAT46W	SOD123	Tape & Reel 3000pcs /7" Reel	8 mm	4 mm	Conductive	

Package Dimensions
Package outline : SOD-123


Unit	A	A1	A2	b	c	D	E	E1	L	L1	θ
Max.	1.25	0.10	1.15	0.65	0.15	1.70	2.80	3.85	0.500 REF.	0.45	8°
Min.	1.05	0.00	1.05	0.45	0.08	1.50	2.60	3.55		0.25	0°

Note:

1. Halogen free,EMC
2. Pb free solder
3. Lead thickness includes solder plating
4. Lead frame: A42
5. Other Tolerance: ±0.05
6. Dimensions are exclusive of Burrs,Mold Flash and Tie Bar extrusions
7. Unit: mm

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