

Features

- Low Forward Voltage Drop
- Fast Switching Time
- Surface Mount Package Ideally Suited for Automatic Insertion

Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
BAT42W	SOD-123	S7	3000
BAT43W	SOD-123	S8	3000



SOD-123

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Maxmim Ratings (Ta=25 unless otherwise noted)

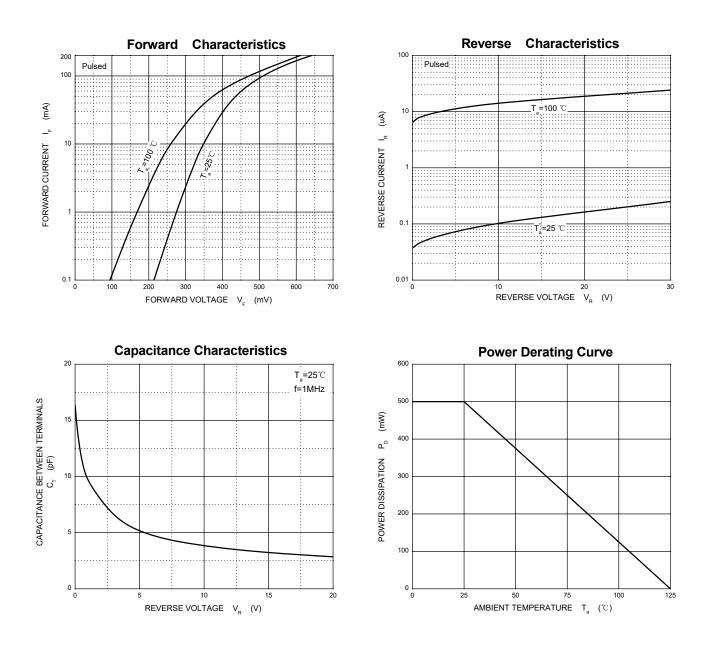
Parameter	Symbol	BAT42W/BAT43W	Unit
Peak Repetitive Peak Reverse Voltage	V _{RRM}		
Working Peak Reverse Voltag	V _{RWM}	30	V
DC Blocking Voltage	V_{R}		
RMS Reverse Voltage	$V_{R(RMS)}$	21	V
Forward Continuous Current	I _{FM}	200	mA
Repetitive Peak Forward Current @t<1.0s	I _{FRM}	500	mA
Non-repetitive Peak Forward Surge Current @t=8.3ms	I _{FSM}	4.0	A
Power Dissipation	PD	500	mW
Thermal Resistance Junction to Ambient	$R_{\theta JA}$	200	/W
Junction temperature	TJ	125	°C
Storage Temperature	T _{STG}	-55~+150	

Electrcal Charcteristics (Ta=25 unless otherwise specified)

Paramete	r	Symbol	Min	Тур	Мах	Unit	Conditions
Reverse breakdown vo	Itage	V _(BR)	30			V	IR=10 μA
Forward voltage	All Types	VF			1.0	V	I _F =200mA
	BAT42W	V _F			0.4	V	I _F =10mA
	BAT42W	VF			0.65	V	I⊧=50mA
	BAT43W	V _F	0.26		0.33	V	I _F =2mA
	BAT43W	V _F			0.45	V	I _F =15mA
Reverse current		I _R			0.5	μA	V _R =25V
Capacitance between to	erminals	C _T			10	pF	V _R =1.0V,f=1.0MHz
Reverse recovery time		t _{rr}			5	ns	I _F =I _R =10mA
					5		$Irr=0.1XI_R, R_L=100\Omega$

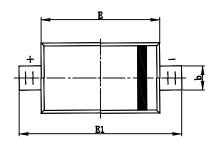


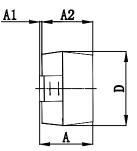
Typical Characteristics

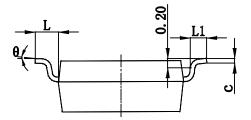




SOD-123 Package Outline Dimensions

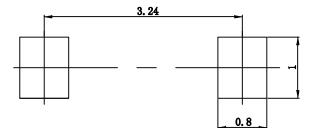






Symbol	Dimensions	In Millimeters	Dimensions In Inches		
	Min	Max	Min	Max	
А	1.050	1.250	0.041	0.049	
A1	0.000	0.100	0.000	0.004	
A2	1.050	1.150	0.041	0.045	
b	0.450	0.650	0.018	0.026	
С	0.080	0.150	0.003	0.006	
D	1.500	1.700	0.059	0.067	
Е	2.600	2.800	0.102	0.110	
E1	3.550	3.850	0.140	0.152	
L	0.500 REF		0.020 REF		
L1	0.250	0.450	0.010	0.018	
θ	0°	8°	0°	8°	

SOD-123 Suggested Pad Layout



Note:

1.Controlling dimension:in millimeters.

2.General tolerance:±0.05mm.

3. The pad layout is for reference purposes only.



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