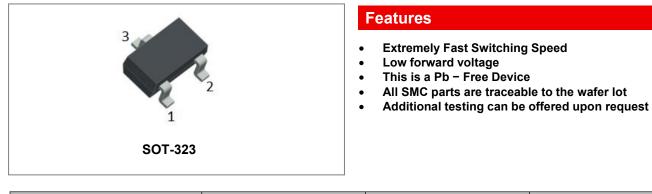


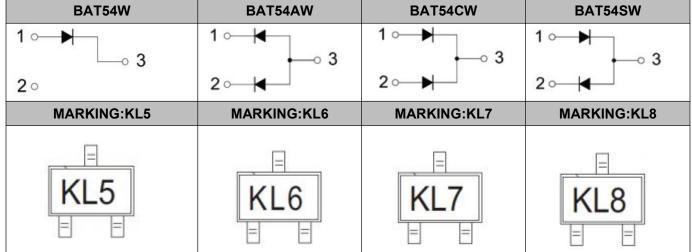
BAT54W(AW)(CW)(SW)

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BAT54W/AW/CW/SW SCHOTTKY BARRIER DIODE





Maximum Ratings@T_A=25°C unless otherwise specified

Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic	Symbol	Limit	Units
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} VR	30	V
Forward Continuous Current	I _{FM}	200	mA
Repetitive Peak Forward Current @ t \leq 1s, δ \leq 0.5	I _{FRM}	300	mA
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	600	mA
Power Dissipation	Pd	200	mW
Typical Thermal Resistance Junction to Ambient	R _{0JA}	500	°C/W
Junction Temperature Range	TJ	125	°C
Storage Temperature Range	T _{STG}	-55 to +150	°C

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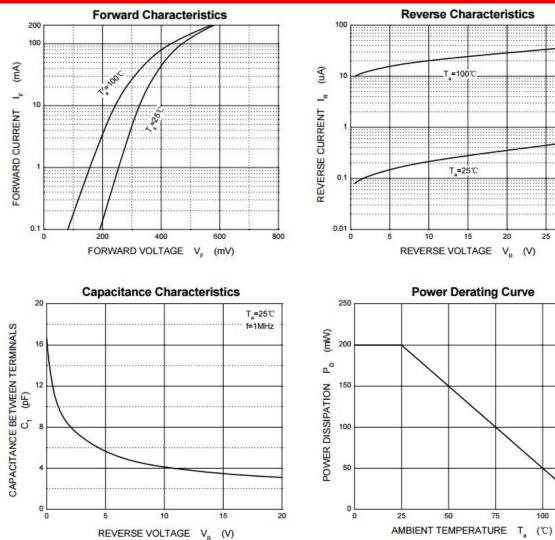
125

Electrical Characteristics @TA=25°C unless otherwise specified

Characteristic	Symbol	Max	Units	Test Condition
		0.24 0.32		I _F =0.1mA I⊧=1mA
Forward Voltage*	VF	0.40	V	I _F =10mA
		0.50 1.0		I⊧=30mA I⊧=100mA
Reverse Leakage Current*	I _R	2	μA	V _R =25V
Diode capacitance	Ст	10	pF	V _R =1V,f=1.0MHz
Reverse recovery time	t _{rr}	5	ns	$I_F = I_R = 10 \text{mA}, I_{rr} = 0.1 \times I_R, R_L = 100 \Omega$

* Pulse width < 300 μ s, duty cycle < 2%

Ratings and Characteristics Curves



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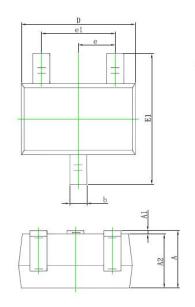


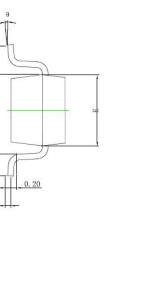
Ordering Information

Device	Package	Shipping
BAT54W/AW/CW/SW	SOT-323(Pb-Free)	3000pcs / reel

For information on tape and reel specifications, including part orientation and tape sizes, please refer to our tape and reel packaging specification.

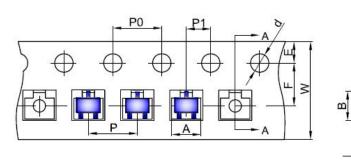
Mechanical Dimensions SOT-323





	Millim	neters	Inches	
SYMBOL	MIN.	MAX.	MIN.	MAX.
А	0.900	1.100	0.035	0.043
A1	0.000	0.100	0.000	0.004
A2	0.900	1.000	0.035	0.039
b	0.200	0.400	0.008	0.016
с	0.080	0.150	0.003	0.006
D	2.000	2.200	0.079	0.087
E	1.150	1.350	0.045	0.053
E1	2.150	2.450	0.085	0.096
е	0.650 TYP.		0.026 TYP.	
e1	1.200	1.400	0.047	0.055
L	0.525 REF.		0.021 REF.	
L1	0.260	0.460	0.010	0.018
θ	0°	8°	0°	8°

Carrier Tape Specification SOT-323



SYMBOL	Millimeters		
STNIBOL	Min.	Max.	
Α	2.20	2.30	
В	2.50	2.60	
С	1.14	1.24	
d	1.45	1.65	
E	1.65	1.85	
F	3.40	3.60	
Р	3.90	4.10	
P0	3.90	4.10	
P1	1.90	2.10	
W	7.90	8.30	

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