

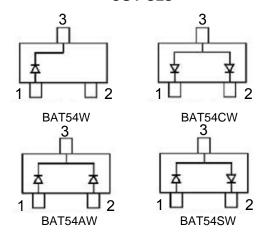
Features

- Extremely Fast Switching Speed
- Low forward voltage



Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
BAT54W	SOT-323	KL5	3000
BAT54AW	SOT-323	KL6	3000
BAT54CW	SOT-323	KL7	3000
BAT54SW	SOT-323	KL8	3000



Maxmim Ratings (Ta=25 unless otherwise noted)

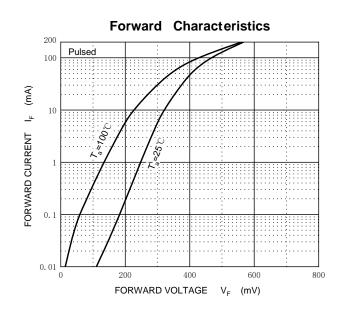
Parameter	Symbol	Value	Unit	
Peak Repetitive Reverse Voltage	V _{RRM}			
Working Peak Reverse Voltage	V_{RWM}	30	V	
DC Blocking Voltage	V_{R}			
Forward Continuous Current	I _{FM}	200	mA	
Non-repetitive Peak Forward Surge Current @t=8.3ms	I _{FSM}	600	mA	
Repetitive Peak Forward Current @ t \leq 1s, $\delta \leq$ 0.5	I _{FRM}	300	mA	
Power Dissipation	P _D	200	mW	
Thermal Resistance from Junction to Ambient	R _{OJA}	500	°C/W	
Operating Junction Temperature Range	Tj	-40 ~ +125	°C	
Storage Temperature Range	T _{stg}	-55 ~ +150	℃	

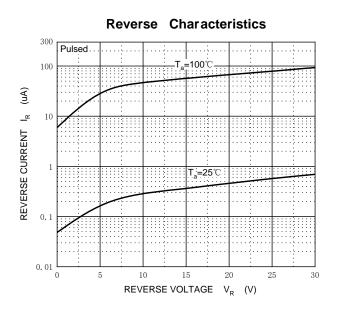
Electrcal Charcteristics (Ta=25 unless otherwise specified)

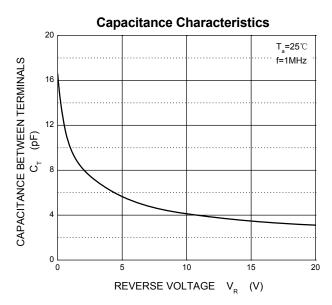
Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Reverse voltage	$V_{(BR)}$	I _R =100μA	30			V
Reverse current	I _R	V _R =25V			2	μΑ
Forward voltage	V _F	I _{F1} =0.1mA			0.24	V
		I _{F2} =1mA			0.32	V
		I _{F3} =10mA			0.40	V
		I _{F4} =30mA			0.50	V
		I _{F5} =100mA			1	V
Diode capacitance	C _D	V _R =1V,f=1MHz			10	pF
Reverse recovery time	t _{rr}	IF=IR=10mA				
		Irr=0.1 \times IR,RL=100 Ω		5	ns	

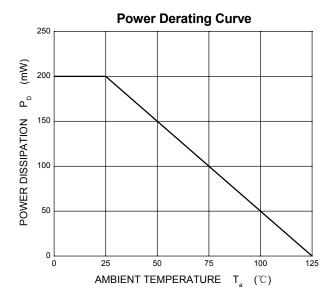


Typical Characteristics



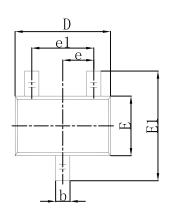


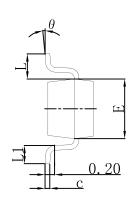


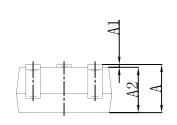




SOT-323 Package Outline Dimensions







Symbol	Dimensions In Millimeters		Dimensions In Inches		
	Min	Max	Min	Max	
Α	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	0.525 REF		0.021 REF	
L1	0.260	0.460	0.010	0.018	
θ	0°	8°	0°	8°	

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