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### FEATURES

- Peak Forward Current: I<sub>FM</sub>=200 mA
- Power Dissipation of 200mw

## Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
BAT54C	SOT-23	KL3	3000





## MAXIMUM RATINGS (Ta=25 unless otherwise noted)

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

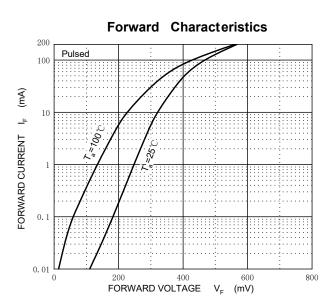
### ELECTRICAL CHARACTERISTICS (Ta=25 unless otherwise specified)

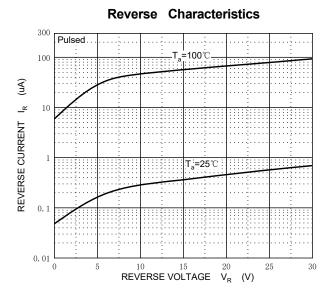
Parameter	Symbol	Min	Тур	Мах	Unit	Test conditions
Reverse voltage	V <sub>(BR)</sub>	30			V	Ι <sub>R</sub> =100μΑ
Forward voltage	VF			0.24	V	I <sub>F1</sub> =0.1mA
				0.32	V	I <sub>F2</sub> =1mA
				0.40	V	I <sub>F3</sub> =10mA
				0.50	V	I <sub>F4</sub> =30mA
				1	V	I <sub>F5</sub> =100mA
Reverse current	I <sub>R</sub>			2	μA	V <sub>R</sub> =25V
Diode capacitance	C <sub>D</sub>			10	pF	V <sub>R</sub> =1V,f=1MHz
Reverse recovery time	t <sub>rr</sub>			5	ns	IF=IR=10mA Irr=0.1×IR,RL=100 Ω

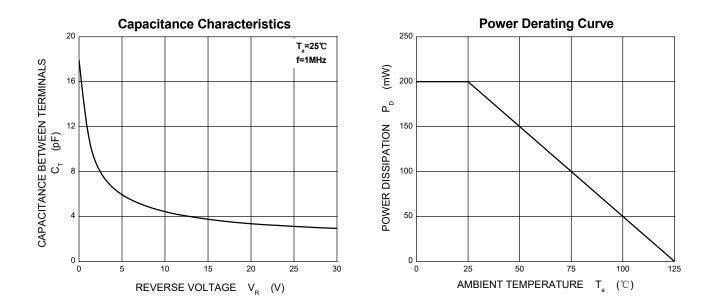


# BAT54C SCHOTTKY BARRIER DIODE

### **Typical Characteristics**

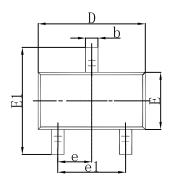


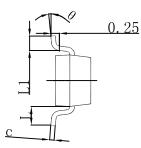


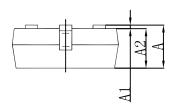




## **SOT-23 Package Outline Dimensions**

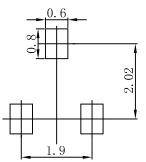






Symbol	Dimensions In Millimeters		Dimensions In Inches		
	Min	Max	Min	Max	
Α	0.900	1.150	0.035	0.045	
A1	0.000	0.100	0.000	0.004	
A2	0.900	1.050	0.035	0.041	
b	0.300	0.500	0.012	0.020	
С	0.080	0.150	0.003	0.006	
D	2.800	3.000	0.110	0.118	
Е	1.200	1.400	0.047	0.055	
E1	2.250	2.550	0.089	0.100	
е	0.950 TYP		0.037 TYP		
e1	1.800	2.000	0.071	0.079	
L	0.550 REF		0.022 REF		
L1	0.300	0.500	0.012	0.020	
θ	0°	8°	0°	8°	

## SOT-23 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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