

Features

- Peak Forward Current: I_{FM}=200 mA
- Power Dissipation of 200mw

Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
BAT54	SOT-23	KL1	3000





Maxmim Ratings (Ta=25°C unless otherwise noted)

Parameter	Symbol	Value	Unit
Peak Repetitive Reverse	V _{RRM}		
Voltage Working Peak Reverse	V _{RWM}	30	V
Voltage 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≤1s,δ≤0.5	I _{FRM}	300	mA
Power Dissipation	PD	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	°C

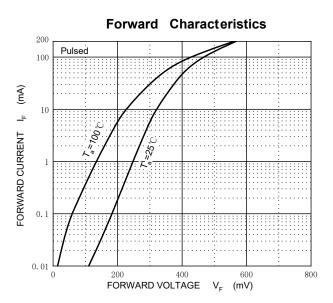
Electrcal Charcteristics (Ta=25°C unless otherwise specified)

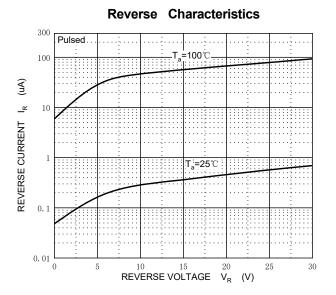
Parameter	Symbol	Min	Тур	Мах	Unit	Test conditions
Reverse voltage	V _(BR)	30			V	Ι _R =100μΑ
Forward voltage	VF			0.24	V	I _{F1} =0.1mA
				0.32	V	I _{F2} =1mA
				0.40	V	I _{F3} =10mA
				0.50	V	I _{F4} =30mA
				1	V	I _{F5} =100mA
Reverse current	I _R			2	μA	V _R =25V
Diode capacitance	CD			10	pF	V _R =1V,f=1MHz
Reverse recovery time	t _{rr}			5	ns	I⊧=Iℝ=10mA Irr=0.1×Iℝ,R∟=100Ω

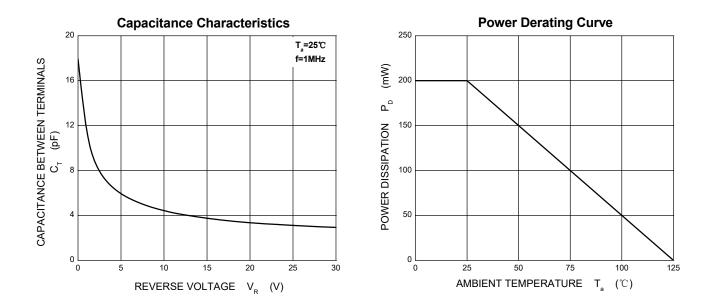


BAT54 SCHOTTKY BARRIER DIODE

Typical Characteristics

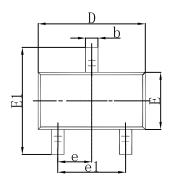


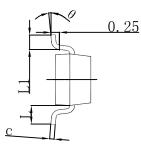


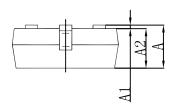




SOT-23 Package Outline Dimensions

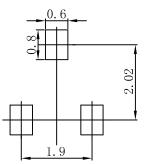






Symbol	Dimensions In Millimeters		Dimensions In Inches		
	Min	Max	Min	Max	
Α	0.900	1.150	0.035	0.045	
A1	0.000	0.100	0.000	0.004	
A2	0.900	1.050	0.035	0.041	
b	0.300	0.500	0.012	0.020	
С	0.080	0.150	0.003	0.006	
D	2.800	3.000	0.110	0.118	
Е	1.200	1.400	0.047	0.055	
E1	2.250	2.550	0.089	0.100	
е	0.950 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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