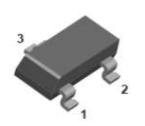


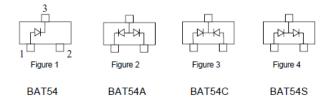


Schottky Barrier Diode



Features

- •Epoxy meets UL-94 V-0 flammability rating
- •Moisure Sensitivity Level 1
- •Low Forward Voltage
- •Surface Mount device



Marking

BAT54	KL1
BAT54A	KL2
BAT54C	KL3
BAT54S	KL4

■Maximum Rating, (Ta=25°C Unless otherwise specified)

Item	Symbol	Unit	Value
Continuous Reverse Voltage	V_R	V	30
Forward Continuous Current	I _F	mA	200
Non-Repetitive Peak Forward Surge Current @ t<1s	I _{FSM}	Α	0.6
Total Power Dissipation @ T _A =25℃	P_D	mW	200
Thermal Resistance, Junction to Ambient	R_{thJA}	°C/W	500
Operation Junction Temperature	TJ	$^{\circ}$	-55 to +125
Storage Temperature	T _{STG}	$^{\circ}$	-55 to +125
Soldering temperature during 10s	TJ	$^{\circ}$	260

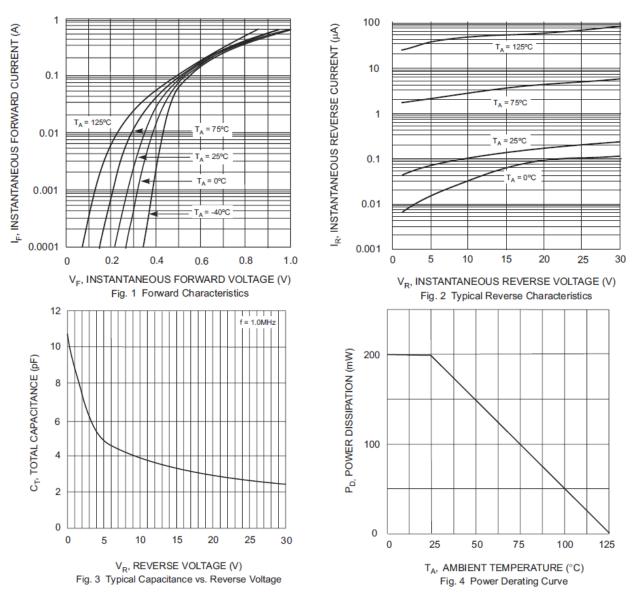
■Ordering Information (Example)

Lordering information (Example)						
PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
BAT54	F2	Approximate 0.008	3000	30000	120000	7" reel
BAT54A	F2	Approximate 0.008	3000	30000	120000	7" reel
BAT54C	F2	Approximate 0.008	3000	30000	120000	7" reel
BAT54S	F2	Approximate 0.008	3000	30000	120000	7" reel

■Electrical Characteristics (T_a=25°C Unless otherwise specified)

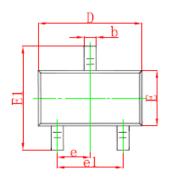
Item	Symbol	Unit	Conditions	Value
Maximum Instantaneous Forward Voltage	V _F	V	I _{FM} =0.1mA	0.24
			I _{FM} =1mA	0.32
			I _{FM} =10mA	0.4
			I _{FM} =30mA	0.5
			I _{FM} =100mA	1
Maximum DC Reverse Current	I _R	uA	V _R =25V	2
Typical Junction Capacitance	CJ	pF	f=1.0MHz, V _R =1.0V	10
Reverse Recovery Time	T _{rr}	ns	I _F =I _R =10mA,I _(REC) =1mA	5

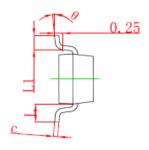
■ Typical Characteristics

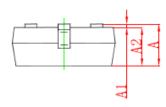




■SOT-23 Package Outline Dimensions

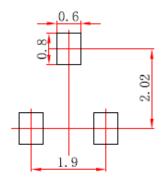






Symbol	Dimensions	In Millimeters	Dimensions In Inches		
	Min	Max	Min	Max	
Α	0.900	1.150	0.035	0.045	
A1	0.000	0.100	0.000	0.004	
A2	0.900	1.050	0.035	0.041	
b	0.300	0.500	0.012	0.020	
С	0.080	0.150	0.003	0.006	
D	2.800	3.000	0.110	0.118	
E	1.200	1.400	0.047	0.055	
E1	2.250	2.550	0.089	0.100	
е	0.950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