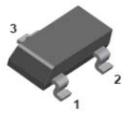
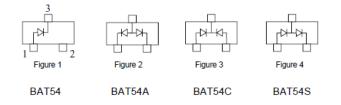
Schottky Barrier Diode



Features

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



Marking	
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KL1
KL2
KL3
KL4

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

Item	Symbol	Unit	Value
Continuous Reverse Voltage	V _R	V	30
Forward Continuous Current	IF	mA	200
Non-Repetitive Peak Forward Surge Current @ t<1s	I _{FSM}	А	0.6
Total Power Dissipation @ $T_A=25^{\circ}C$	PD	mW	200
Thermal Resistance, Junction to Ambient	R _{thJA}	°C /W	500
Operation Junction Temperature	TJ	°C	-55 to +125
Storage Temperature	T _{STG}	°C	-55 to +125

Ordering Information (Example)

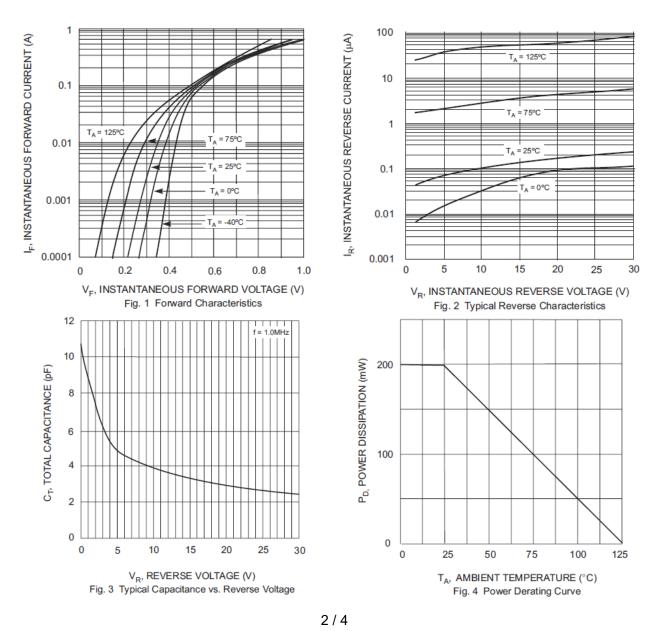
PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
BAT54	F2	Approximate 0.008	3000	30000	120000	7" reel
BAT54A	F2	Approximate 0.008	3000	30000	120000	7" reel
BAT54C	F2	Approximate 0.008	3000	30000	120000	7" reel
BAT54S	F2	Approximate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



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

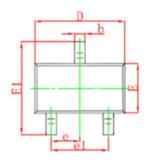
ltem	Symbol	Unit	Conditions	Value
Maximum Instantaneous Forward Voltage	VF	v	I _{FM} =0.1mA	0.24
			I _{FM} =1mA	0.32
			I _{FM} =10mA	0.4
			I _{FM} =30mA	0.5
			I _{FM} =100mA	1
Maximum DC Reverse Current	I _R	uA	V _R =25V	2
Typical Junction Capacitance	CJ	pF	f=1.0MHz, V _R =1.0V	10
Reverse Recovery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

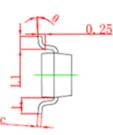
Typical Characteristics

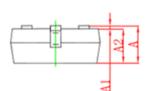


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■SOT-23 Package Outline Dimensions

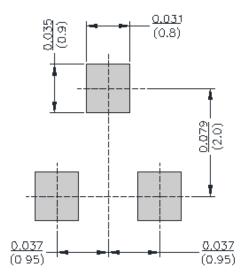






Symbol	Dimensions In	Millimeters	Dimensions In Inches		
3ym001	Min	Max	Min	Max	
A	0.900	1.150	0.035	0.045	
Al	0.000	0.100	0.000	0.004	
A2	0.900	1.050	0.035	0.041	
b	0.300	0.500	0.012	0.020	
c	0.100	0.200	0.004	0.008	
D	2.800	3.000	0.110	0.118	
E	1.200	1.400	0.047	0.055	
E1	2.250	2.550	0.089	0.100	
e	0.95	OTYP	0. 037TYP		
el	1.800	2.000	0.071	0.079	
L	0.55	OREF	0. 022REF		
L1	0.300	0.500	0.012	0.020	
θ	0°	8°	0°	8*	

■SOT-23Suggested Pad Layout



3/4



BAT54 THRU BAT54S

Disclaimer

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