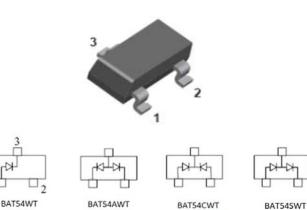
BAT54WT THRU BAT54SWT

Schottky Barrier Diode



Features

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

Mechanical Data

- Package: SOT-323
- Terminals: Tin plated leads, solderable per J-STD-002 and JESD22-B102
- Marking:

BAT54WT	KL5
BAT54AWT	KL6
BAT54CWT	KL7
BAT54SWT	KL8

■Maximum Ratings(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℃	P _D	mW	200
Thermal Resistance, Junction to Ambient	R _{thJA}	°C/W	500
Operation Junction Temperature	TJ	°C	-55 to +125
Storage Temperature	T _{STG}	Ĉ	-55 to +125

Ordering Information (Example)

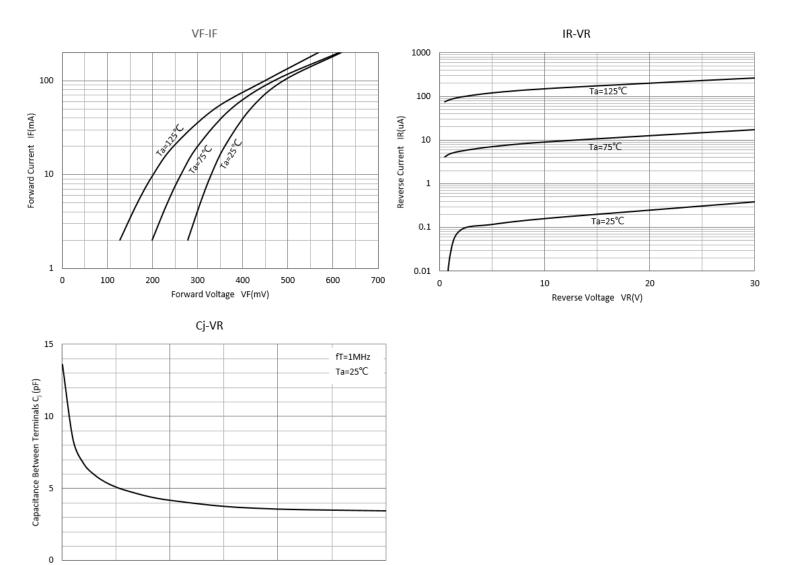
PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
BAT54WT	F2	Approximate 0.005	3000	30000	120000	7" reel
BAT54AWT	F2	Approximate 0.005	3000	30000	120000	7" reel
BAT54CWT	F2	Approximate 0.005	3000	30000	120000	7" reel
BAT54SWT	F2	Approximate 0.005	3000	30000	120000	7" reel

1/4

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

Item	Symbol	Unit	Conditions	Value
	VF	v	I _{FM} =0.1mA	0.24
Maximum Instantaneous Forward Voltage			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
Maximum Reverse Recovery Time	Tr	ns	$I_F = I_R = 10 \text{mA}$ $I_r = 0.1^* I_R, R_L = 100 \Omega$	5

Typical Characteristics



30

10

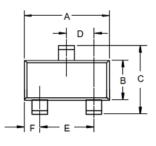
20

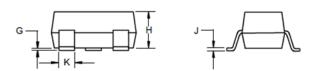
Reverse Voltage VR(V)

0



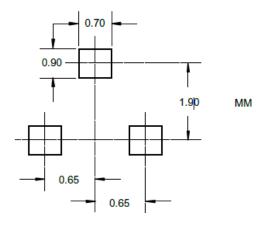
SOT-323 Package Outline Dimensions





DIMENSIONS						
	INCHES		М			
DIM	MIN	MAX	MIN MAX		NOTE	
Α	.071	.087	1.80	2.20		
В	.045	.053	1.15	1.35		
С	.083	.096	2.10	2.45		
D	.026 Nominal		0.65Nominal			
E	.047	.055	1.20 1.40			
F	.012	.016	.30	.40		
G	.000	.004	.000	.100		
Н	.035	.039	.90	1.00		
J	.004	.010	.100	.250		
K	.006	.016	.15	.40		

SOT-323 Suggested Pad Layout





BAT54WT THRU BAT54SWT

Disclaimer

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The product listed herein is designed to be used with ordinary electronic equipment or devices, and not designed to be used with equipment or devices which require high level of reliability and the malfunction of with would directly endanger human life (such as medical instruments, transportation equipment, aerospace machinery, nuclear-reactor controllers, fuel controllers and other safety devices), Yangjie or anyone on its behalf, assumes no responsibility or liability for any damages resulting from such improper use of sale.

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