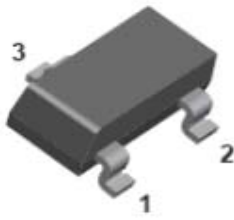
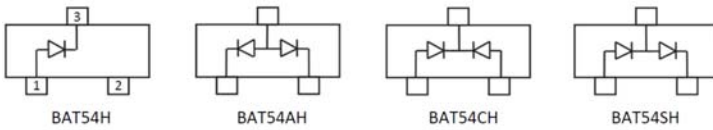


Schottky Barrier Diode



Features

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



Marking

BAT54H	KL1H
BAT54AH	KL2H
BAT54CH	KL3H
BAT54SH	KL4H

■Maximum Rating, ($T_A=25^{\circ}\text{C}$ 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 @ $t < 1\text{s}$	I_{FSM}	A	0.6
Total Power Dissipation @ $T_A=25^{\circ}\text{C}$	P_D	mW	200
Thermal Resistance, Junction to Ambient	$R_{\theta JA}$	$^{\circ}\text{C}/\text{W}$	500
Junction Temperature	T_J	$^{\circ}\text{C}$	-55 to +150
Storage temperature range	T_{stg}	$^{\circ}\text{C}$	-55 to +150

■Ordering Information (Example)

PREFERRED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
BAT54H	F2	Approximate 0.008	3000	30000	120000	7" reel
BAT54AH	F2	Approximate 0.008	3000	30000	120000	7" reel
BAT54CH	F2	Approximate 0.008	3000	30000	120000	7" reel
BAT54SH	F2	Approximate 0.008	3000	30000	120000	7" reel

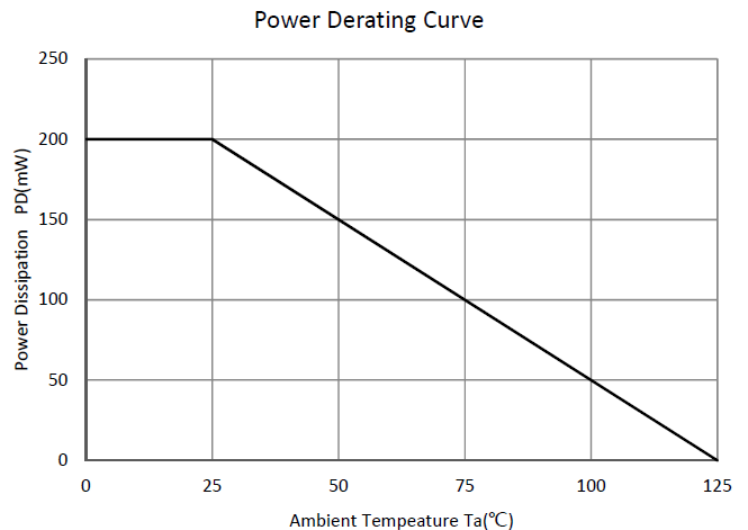
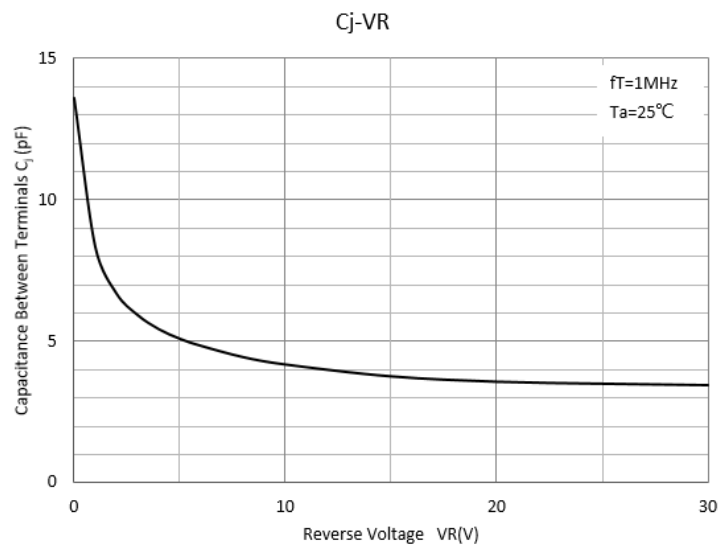
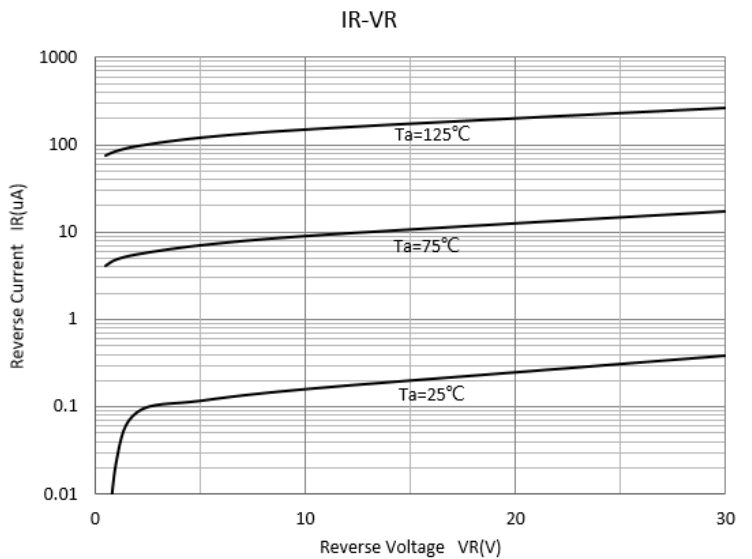
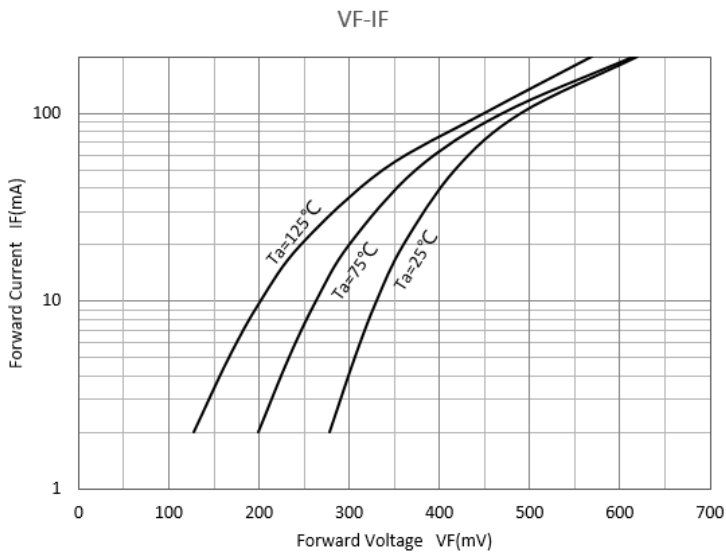


BAT54H THRU BAT54SH

■ 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	0.8
Maximum DC Reverse Current	I _R	uA	V _R =25V	2
Typical Junction Capacitance	C _J	pF	f=1.0MHz, V _R =1.0V	10
Reverse Recovery Time	T _{rr}	ns	I _F =I _R =10mA, I _(REC) =1mA	5

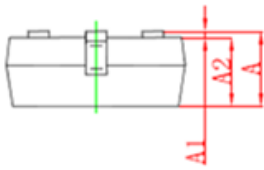
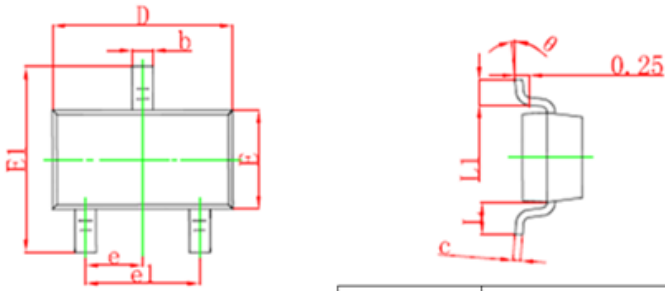
■ Typical Characteristics





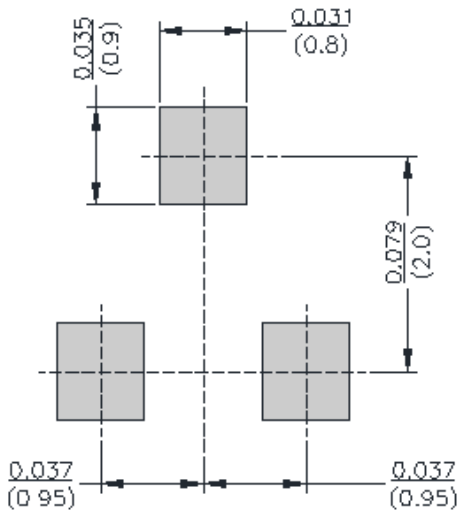
BAT54H THRU BAT54SH

■SOT-23 Package Outline Dimensions



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	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
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	0.950TYP		0.037TYP	
e1	1.800	2.000	0.071	0.079
L	0.550REF		0.022REF	
L1	0.300	0.500	0.012	0.020
θ	0°	8°	0°	8°

■SOT-23 Soldering Footprint





BAT54H THRU BAT54SH

Disclaimer

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