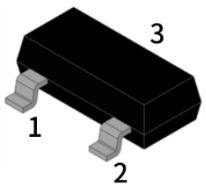
BAT54LST1

SCHOTTKY BARRIER DIODE

1. FEATURES

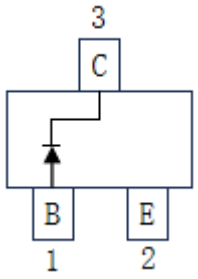
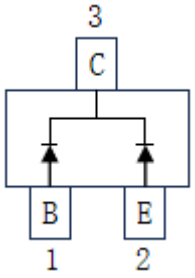
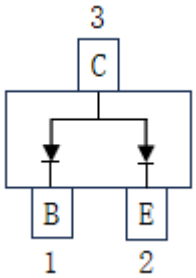
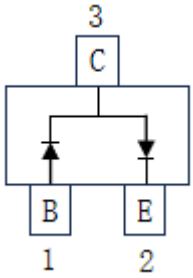
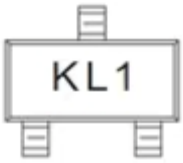
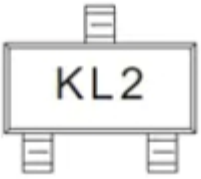
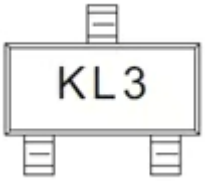
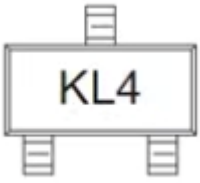
- The material of product compliance with RoHS requirements and Halogen Free.
- High Stability and High Reliability.
- Extremely Fast Switching Speed



SOT23 (TO-236)

2. Mechanical Data

- SOT-23 Small Outline Plastic Package.
- Tin plated leads, solderable per J-STD-002 and JESD22-B102.
- Marking:

BAT54	BAT54A	BAT54C	BAT54S
			
KL1	KL2	KL3	KL4
			

3. ORDERING INFORMATION

Device	Min Pack	Inner Box	Outer Carton	Reel
BAT54LST1	3000	45000	180000	7 inch

4. MAXIMUM RATINGS (Ta = 25°C)

Parameter	Symbol	Limit	Unit
DC Blocking Voltage Working Peak Reverse Voltage Peak Repetitive Reverse Voltage	VR VRWM VRRM	30	V
Forward Continuous Current	IFM	200	mA
Non-repetitive Peak Forward Surge Current @ t=8.3ms	IFSM	600	mA

5. THERMAL CHARACTERISTICS

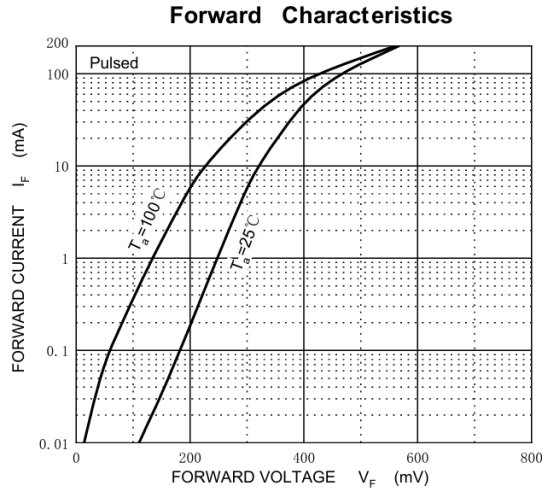
Parameter	Symbol	Limit	Unit

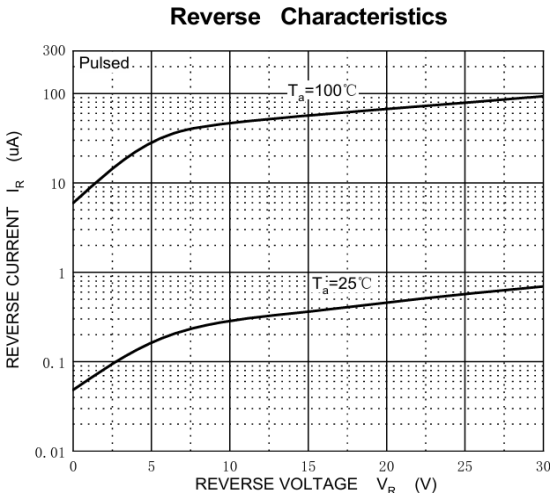
Power Dissipation	PD	200	mW
Collector Current	TJ	-40 ~ 125	℃
Operation Junction and Storage Temperature Range	TSTG	-55~150	°C
Thermal Resistance Junction to Ambient	RΘJA	500	°C/W

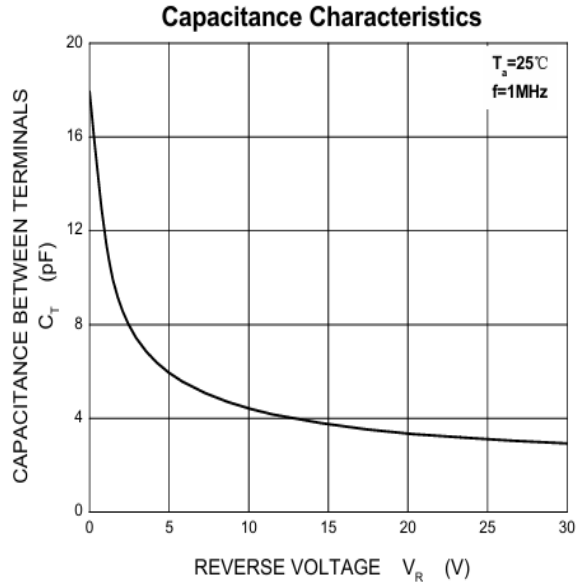
5. ELECTRICAL CHARACTERISTICS (Ta= 25°C unless otherwise specified)

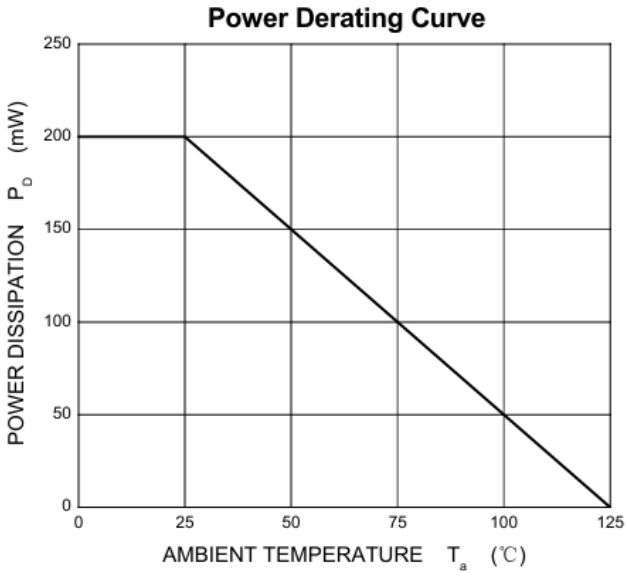
Parameter	Symbol	Condition	Min	Max	Unit
Reverse Voltage	V(BR)	IR=0.1mA	30		V
Forward Voltage	VF	IF=0.1mA		0.23	V
		IF=1mA		0.32	V
		IF=10mA		0.40	V
		IF=30mA		0.50	V
		IF=100mA		1	V
Reverse Voltage Leakage Current	IR	VR=25V		2	μA
	Cj	VR=1V, f=1MHZ		10	PF
Reverse recovery time	trr	IF=IR=10mA, RL=100Ω, IRR=0.1IR		5	ns

7. ELECTRICAL CHARACTERISTICS CURVES

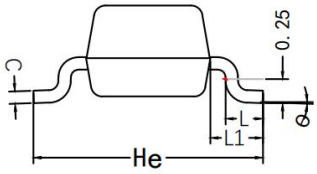


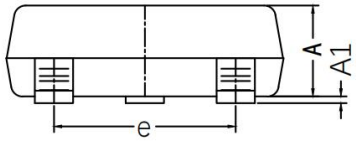


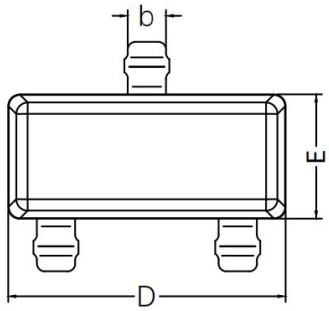




8.OUTLINE AND DIMENSIONS

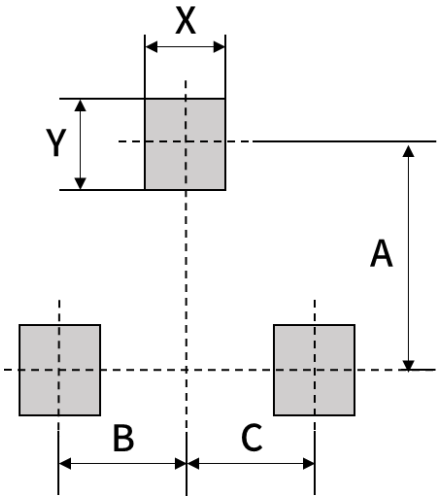






DIM	MIN	NOR	MAX
A	0.85	0.95	1.05
A1	0.01	0.06	0.10
b	0.36	0.44	0.52
c	0.09	0.13	0.18
D	2.80	2.90	3.10
E	1.20	1.30	1.40
e	1.78	1.90	2.04
L	0.30	0.40	0.50
L1	0.35	0.50	0.65
He	2.10	2.35	2.50
θ	0°	-	10°
All Dimensions in mm			

9. SUGGESTED PAD LAYOUT



SOT23		
DIM	mm	inch
A	2.00	0.079
B	0.95	0.037
C	0.95	0.037
X	0.80	0.031
Y	0.90	0.035

10. DISCLAIMER

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