



肖特基二極管

SOT-23 BAT54 Series
SURFACE MOUNT SCHOTTKY BARRIER DIODE

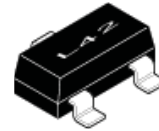
FEATURE:

- ◆ Fast switching diode
- ◆ Low Turn-on voltage
- ◆ PN Junction Guard Ring for transient and ESD protection
- ◆ Designed for Surface Mount Application
- ◆ Plastic Material - UL Recognition Flammability Classification 94V-0

MECHANICAL CHARACTERISTICS:

- ◆ Case: SOT-23 Molded Plastic
- ◆ Weight: 0.008 Grams (approx)
- ◆ Marking: Body top
- ◆ Terminals: Plated leads solderable per MIL-STD-202, Method 208.
- ◆ Mounting: Position any
- ◆ Lead Free for Rohm / Lead free version and "LF" suffix to part number.

Figure

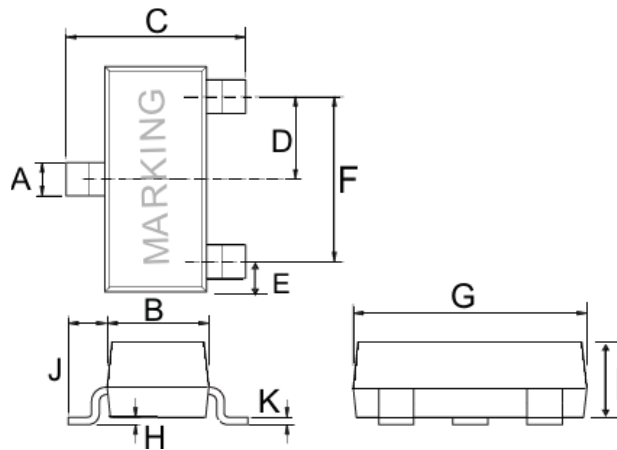


BAT54 Series Marking

BAT54	L4
BAT54A	L42
BAT54C	L43
BAT54S	L44

DIMENSION:

SOT-23		
Dim	Min	Max
A	0.37	0.51
B	1.19	1.4
C	2.1	2.5
D	0.89	1.05
E	0.45	0.61
F	1.78	2.05
G	2.65	3.05
H	0.013	0.15
I	0.89	1.1
J	0.45	0.61
K	0.076	0.178



Maximum Ratings and Electrical Characteristics Single Diode @T_A=25°C unless otherwise specified

Characteristics	Symbol	Value	Unit
Peak Repetitive Voltage	V _{RRM}	30	V
Working Peak Reverse Voltage	V _{RWM}	30	V
DC Blocking Voltage	V _R	30	V
Forward Continuous Current (Note 1)	I _F	200	mA
Repetitive Peak Forward Current (Note 1)	I _{FRM}	300	mA
Forward Surge Current (Note 1) @t<1.0s	I _{FSM}	600	mA
Power Dissipation (Note 1)	P _d	200	mW
Typical Thermal Resistance, Junction to Ambient Air (Note 1)	R _{θJA}	500	K/W
Operating and Storage Temperature Range	T _J , T _{STG}	-60+125	°C

Note: 1 Device on fiberglass substrate.



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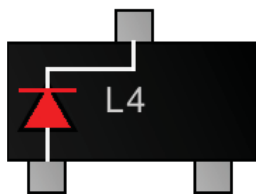
SOT-23 BAT54 Series

URFACE MOUNT SCHOTTKY BARRIER DIODE

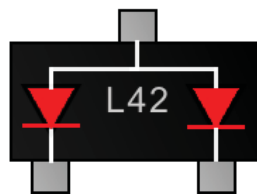
□ **Maximum Ratings and Electrical Characteristics Single Diode** @T_A=25°C unless otherwise specified

Characteristic	Symbol	Min.	Max.	Unit	Test Condition
Reverse Breakdown Voltage	V _{(BR)R}	30	----	V	@I _{RS} = 100µA
Forward Voltage	V _F	----	240	mV	to<200µs, duty cycle<2%
			320		@I _F = 0.1mA
			400		@I _F = 1mA
			500		@I _F = 10mA
			1000		@I _F = 30mA
Reverse Leakage Current	I _R	----	2.0	µA	t _p <300µs,duty cycle <2% @V _R = 25V
Junction Capacitance	C _j	----	10	pF	V _R = 1.0V, f = 1.0MHz
Reverse Recovery Time	t _{rr}	----	5.0	nS	I _F =10mA, through I _R =10mA to I _R =1.0mA,R _L =100Ω

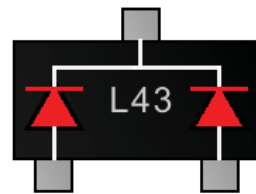
TOP VIEW DEVICE MARKING



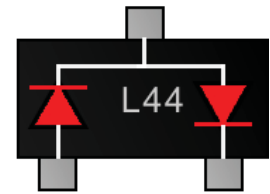
BAT54: L4



BAT54A: L42

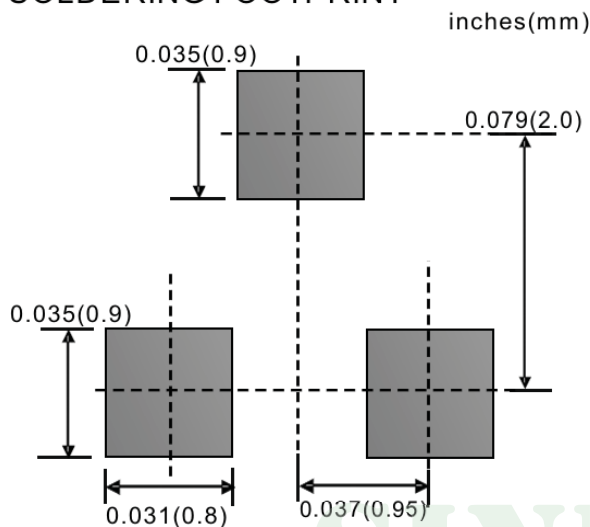


BAT54C: L43

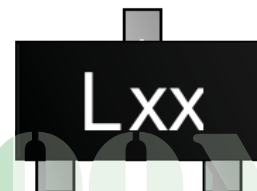


BAT54S: L44

SOLDERING FOOTPRINT



MARKING INFORMATION



- Lxx : Device Code
- xx : 4 (BAT54)
- 42 (BAT54A)
- 43 (BAT54C)
- 44 (BAT54S)

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COMMON PACKING INFORMATION:

Product Number:	Package Type	Packing Quantity	Carton Quantity	Apporx Gross Weight
BAT54-T1 (L4)	SOT-23	3000 Tape & Reel	150,000 Ctn	10 Kg
BAT54A-T1 (L42)	SOT-23	3000 Tape & Reel	150,000 Ctn	10 Kg
BAT54C-T1 (L43)	SOT-23	3000 Tape & Reel	150,000 Ctn	10 Kg
BAT54S-T1 (L44)	SOT-23	3000 Tape & Reel	150,000 Ctn	10 Kg

Reel Diameter (mm)	Quantity (Pcs)	Inner Box Size (mm)	Carton Size (mm)
178	3000	L: 187 x W:187 x H: 65	L:390 x W:240 x H:420

Reel Diameter : Fig-1

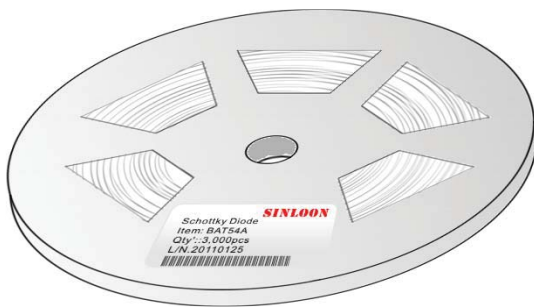


Fig-1

Inner Box: Fig-2



Fig-2

Carton Pack Fig-3



Fig-3

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Mayloon characteristic parameters of electronic product specification changes or updates without prior notice。

