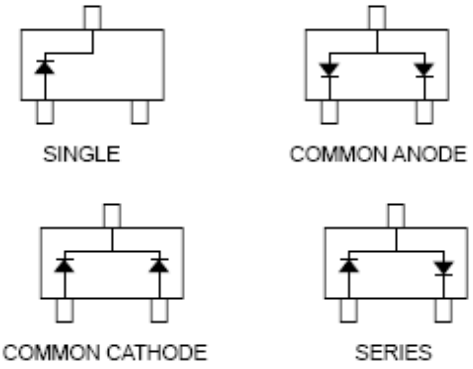
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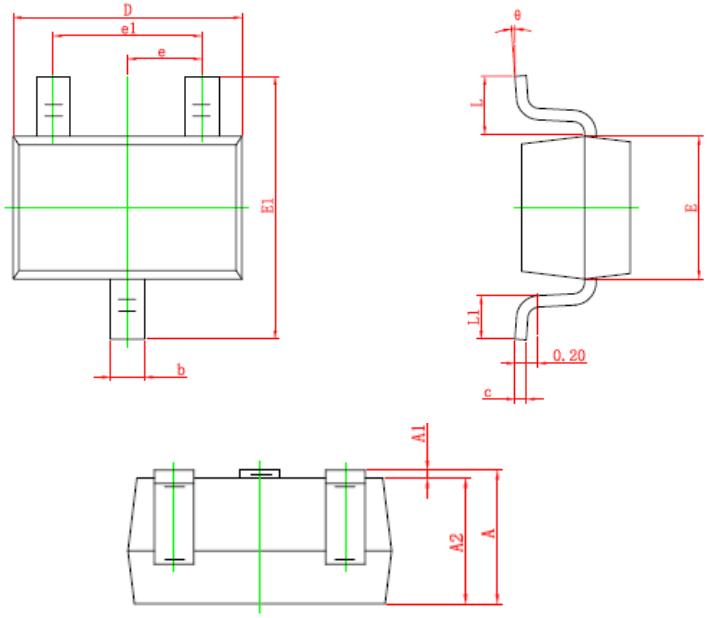
Features

- Low Turn-on Voltage
- Fast Switching
- PN Junction Guard Ring for Transient and ESD Protection
- Both normal and Pb free product are available:
  Normal:80~95% Sn, 5~20% Pb
  Pb free:98.5% Sn above
- All SMC parts are traceable to the wafer lot
- Additional testing can be offered upon request



Mechanical Data

- Case: SOT-323, Plastic
- Terminals: Solderable per MIL-STD-202, Method 208
- Weight: 0.0052 grams (approx.)



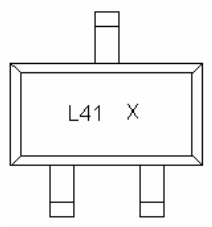
Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	0.900	1.100	0.035	0.043
A1	0.000	0.100	0.000	0.004
A2	0.900	1.000	0.035	0.039
b	0.200	0.400	0.008	0.016
c	0.080	0.150	0.003	0.006
D	2.000	2.200	0.079	0.087
E	1.150	1.350	0.045	0.053
E1	2.150	2.450	0.085	0.096
e	0.650 TYP		0.026 TYP	
e1	1.200	1.400	0.047	0.055
L	0.525 REF		0.021 REF	
L1	0.260	0.460	0.010	0.018
θ	0°	8°	0°	8°

SOT-323

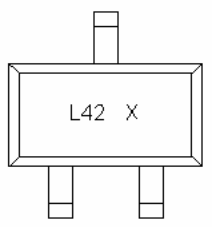
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Marking Diagram:



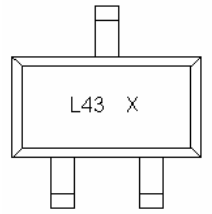
BAT54W



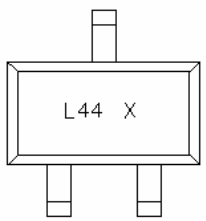
BAT54AW

Where X is Date Code

L41/L42/L43/L44 = Part Name



BAT54CW



BAT54SW

Cautions: Molding resin
Epoxy resin UL:94V-0

Ordering Information:

Device	Package	Shipping
BAT54W/AW/CW/SW	SOT-323(Pb-Free)	3000pcs / reel

For information on tape and reel specifications, including part orientation and tape sizes, please refer to our Tape and Reel Packaging Specification.

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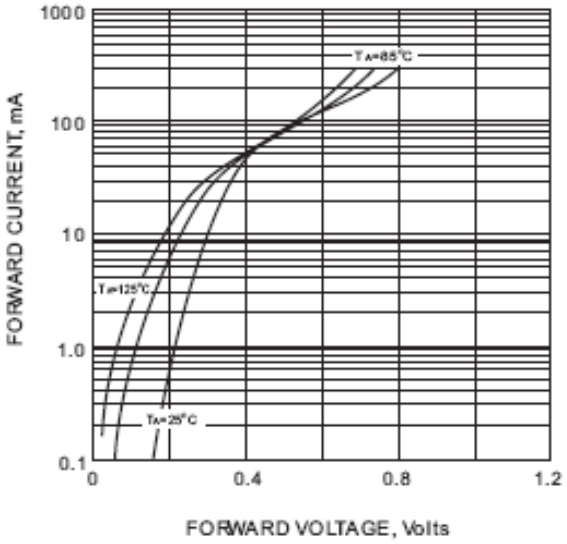
Maximum Ratings and Electrical Characteristics

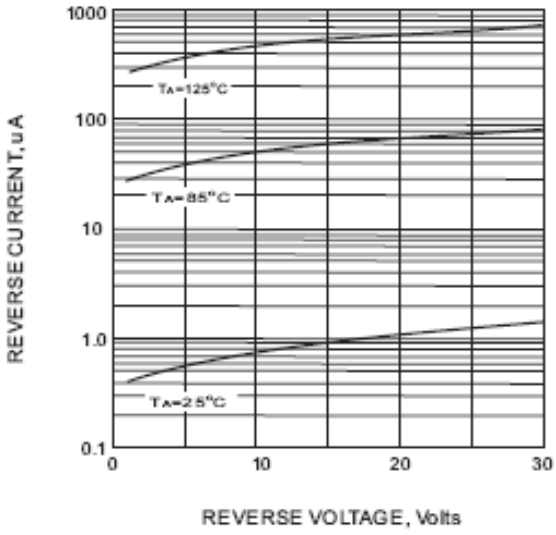
Ratings at 25°C ambient temperature unless otherwise specified. For capacitive load, derate current by 20%.

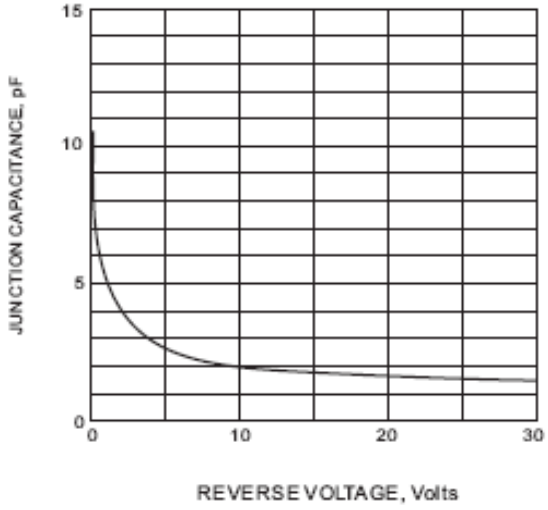
Characteristic	Symbol	BAT54W	BAT54AW	BAT54CW	BAT54SW	Unit
Marking code		L41	L42	L43	L44	
Peak Repetitive Reverse Voltage	V_{RRM}	30				V
Average Rectified Output Current at Ta = 75°C	Io	200				mA
Maximum Instantaneous Forward Voltage @ I_F = 1mA @ I_F = 100mA	V_F	0.32 1.0				V
Maximum DC Reverse Current at Rated DC Blocking voltage @ V_R = 25 V	I_R	2.0				μA
Peak Forward Surge Current, 1.0s (JEDEC method)	I_{FSM}	600				mA
Junction Capacitance at V_R = 1 V	Cj	10				pF
Thermal Resistance, Junction to Ambient Air	$R_{\theta JA}$	635				°C/W
Operating and Storage Temperature Range	T_j, T_{STG}	-55 to +125				°C
Circuit Figure	-	Single	Common Anode	Common Anode	Series	-

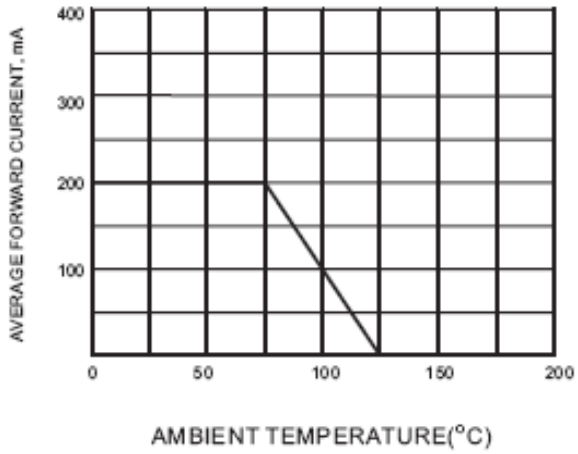
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