

# BAT54/A/C/S

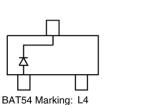
#### Features

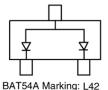
Low Turn-on Voltage Fast Switching PN Junction Guard Ring for Transient and ESD Protection

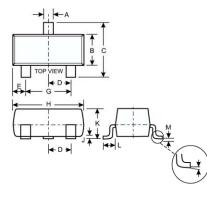
#### Mechanical Data

Case: SOT-23, Molded Plastic Case material - UL Flammability Rating Classification 94V-0 Moisture sensitivity: Level 1 per J-STD-020A Terminals: Solderable per MIL-STD-202, Method 208 Polarity: See Diagrams Below Weight: 0.008 grams (approx.)

Marking Code: See Diagrams Below Ordering Information: See Page 3







SOT-23			
Dim	Min	Max	
Α	0.37	0.51	
В	1.20	1.40	
С	2.30	2.50	
D	0.89	1.03	
Е	0.45	0.60	
G	1.78	2.05	
н	2.80	3.00	
J	0.013	0.10	
К	0.903	1.10	
L	0.45	0.61	
М	0.85	0.80	
α	0°	8°	
All Dimensions in mm			





BAT54C Marking: L43

BAT54S Marking: L44

#### • Maximum Ratings @ $T_A = 25^{\circ}C$ unless otherwise specified

Characteristic	Symbol	Value	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V <sub>BBM</sub> V <sub>RWM</sub> V <sub>R</sub>	30	V
Forward Continuous Current (Note 2)	IF	200	mA
Repetitive Peak Forward Current	I <sub>FRM</sub>	300	mA
Forward Surge Current @ t < 1.0s	I <sub>FSM</sub>	600	mA
Power Dissipation (Note 2)	Pd	200	mW
Thermal Resistance, Junction to Ambient Air (Note 2)	$R_{ ext{ heta}JA}$	500	°C/W
Operating and Storage Temperature Range	T <sub>j</sub> , T <sub>STG</sub>	-65 to +125	°C

#### • Electrical Characteristics @ T<sub>A</sub> = 25°C unless otherwise specified

Characteristic	Symbol	Min	Тур	Max	Unit	Test Condition
Reverse Breakdown Voltage (Note 1)	V <sub>(BR)R</sub>	30	_	_	V	I <sub>RS</sub> = 100μA
Forward Voltage (Note 1)	V <sub>F</sub>	_	_	240 320 400 500 1000	mV	$ \begin{array}{ll} I_F = & 0.1 mA \\ I_F = & 1 mA \\ I_F = & 10 mA \\ I_F = & 30 mA \\ I_F = & 100 mA \end{array} $
Reverse Leakage Current (Note 1)	IR	—	_	2.0	μA	V <sub>R</sub> = 25V
Total Capacitance	CT	_	_	10	pF	$V_{R} = 1.0V, f = 1.0MHz$
Reverse Recovery Time	t <sub>rr</sub>	—	_	5.0	ns	$I_F$ = 10mA through $I_R$ = 10mA to $I_R$ = 1.0mA, $R_L$ = 100 $\Omega$

Notes: 1. Short duration pulse test used to minimize self-heating effect. 2. Part mounted on FR-4 board with recommended pad layout

SHIKE MAKE CONSCIOUS PRODUCT

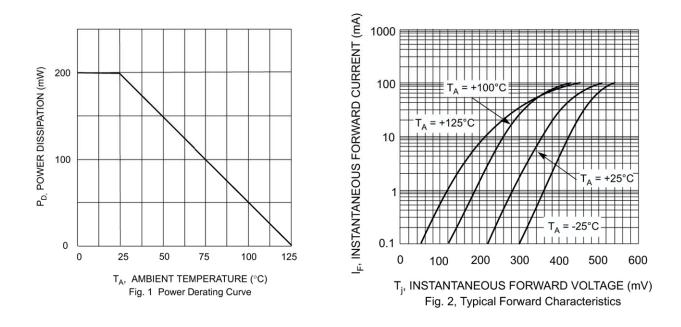
CONSCIOUS PRODUCTS BEGIN WITH CONSCIOUS PEOPLE

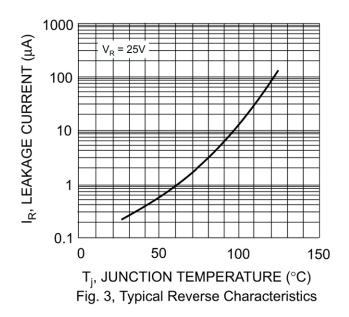


**REV.07** 



## BAT54/A/C/S





SHIKE MAKE CONSCIOUS PRODUCT CONSCIOUS PRODUCTS BEGIN WITH CONSCIOUS PEOPLE REV.07







### Ordering Information (Note 3)

Device	Packaging	Shipping		
BAT54 BAT54A BAT54C BAT54S	SOT-23	3000/Tape & Reel		



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