

# BAT54 series

SCHOTTKY BARRIER DIODES

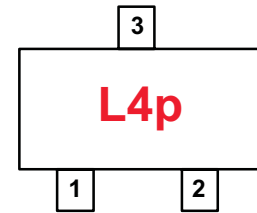
## Absolute Maximum Ratings\* TA=25°C unless otherwise noted

Parameter	Value	Units
Storage Temperature	-55 to +150	°C
Operating Junction Temperature	+150	°C
Working Inverse Voltage	25	V
DC Forward Current (IF)	200	mA
Recurrent Peak Forward Current (IFRM)	300	mA
Peak Forward Surge Current (IFSM)		
Pulse Width = 1.0 Second	600	mA
Total Power Dissipation at 25°C	230	mW
Theta (Rth j-a) (Note 1)	430	°K/W

\*These ratings are limiting values above which the serviceability of any semiconductor device may be impaired

### NOTES:

1) From junction to ambient mounted on a ceramic substrate of 10 mm x 8 mm x 0.6 mm



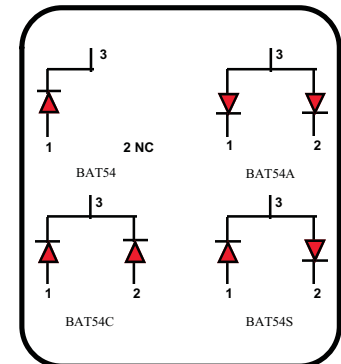
### PACKAGE

TO-236AB (Low)

### MARKING

BAT54 L4p BAT54C L43  
BAT54A L42 BAT54S L44

### CONNECTION DIAGRAMS



## Electrical Characteristics TA = 25°C unless otherwise noted

SYM	CHARACTERISTICS	MIN	MAX	UNITS	TEST CONDITIONS
B <sub>V</sub>	Breakdown Voltage	30		V	I <sub>R</sub> = 10 uA
I <sub>R</sub>	Reverse Leakage		2.0	uA	V <sub>R</sub> = 25 V
V <sub>F</sub>	Forward Voltage		240 320 400 500 1.0	mV mV mV mV V	I <sub>F</sub> = 100 uA I <sub>F</sub> = 1.0 mA I <sub>F</sub> = 10 mA I <sub>F</sub> = 30 mA I <sub>F</sub> = 100 mA
C <sub>T</sub>	Capacitance		10	pF	V <sub>R</sub> = 1.0 V f = 1.0 MHz
T <sub>RR</sub>	Reverse Recovery Timw		5.0	nS	I <sub>F</sub> = I <sub>R</sub> = 10 mA I <sub>RR</sub> = 1.0 mA R <sub>L</sub> = 100 Ohms