

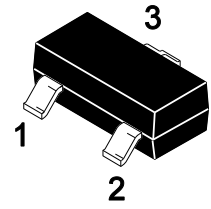


# BAT54 Series Schottky Barrier Rectifiers

## Features

- Small package
- Small capacitance

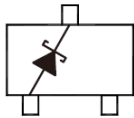
SOT-23



## Equivalent Circuit

### BAT54

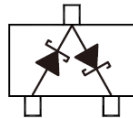
3.Cathode



1.Anode 2.NC

### BAT54S

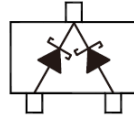
3.Cathode1、Anode2



1.Anode1 2.Cathode2

### BAT54C

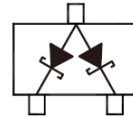
3.Cathode1、Cathode2



1.Anode1 2.Anode2

### BAT54A

3.Anode1、Anode2



1.Cathode1 2.Cathode2

### Marking Code :

BAT54 : L4

BAT54S : L44

BAT54C : L43

BAT54A : L42

## Absolute Maximum Ratings ( $T_A=25^\circ\text{C}$ )

Parameter	Symbols	Value	Unit
Repetitive Peak Reverse Voltage	$V_{RRM}$	30	V
Average Rectified Forward Current	$I_{F(AV)}$	200	mA
Repetitive Peak Forward Current	$I_{FRM}$	300	mA
Non-Repetitive Peak Forward Surge Current at 1s	$I_{FSM}$	600	mA
Power Dissipation	$P_D$	290	mW
Thermal Resistance Junction to Ambient Air	$R_{\theta JA}$	430	$^\circ\text{C}/\text{W}$
Junction Temperature	$T_J$	150	$^\circ\text{C}$
Storage Temperature Range	$T_{STG}$	-55 to +150	$^\circ\text{C}$



# BAT54 Series

## Schottky Barrier Rectifiers

### Electrical Characteristics ( $T_A=25^\circ\text{C}$ )

Parameter	Symbols	Min.	Max.	Unit
Forward Voltage at $I_F = 0.1 \text{ mA}$ at $I_F = 1 \text{ mA}$ at $I_F = 10 \text{ mA}$ at $I_F = 30 \text{ mA}$ at $I_F = 100 \text{ mA}$	$V_F$	-- -- -- -- --	240 320 400 500 1000	mV
Reverse Current at $V_R = 25 \text{ V}$	$I_R$	--	2	$\mu\text{A}$
Breakdown Voltage at $I_R = 10 \mu\text{A}$	$V_{R(BR)}$	30	--	V
Total Capacitance at $V_R = 1 \text{ V}$ , $f = 1 \text{ MHz}$	$C_T$	--	10	pF
Reverse Recovery Time at $I_F = 10 \text{ mA}$ , $I_R = 10 \text{ mA}$ , $I_{RR} = 1 \text{ mA}$ , $R_L = 100 \Omega$	$T_{rr}$	--	5	ns



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## Typical Characteristic Curves

