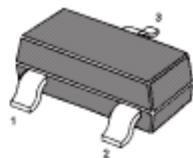
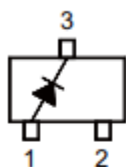


# BAT54 / A / C / S

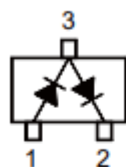
## SCHOTTKY BARRIER DIODES



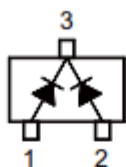
BAT54



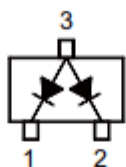
BAT54S



BAT54C



BAT54A



BAT54 Marking Code: L4  
 BAT54A Marking Code: L42  
 BAT54C Marking Code: L43  
 BAT54S Marking Code: L44  
 SOT-23 Plastic Package

### Absolute Maximum Ratings<sup>1)</sup> ( $T_a = 25^\circ\text{C}$ )

Parameter	Symbol	Limits	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 Pulse width=1 second	$I_{FSM}$	600	mA
Power dissipation	$P_{tot}$	290	mW
Thermal resistance junction to ambient air	$R_{\theta JA}$	430	$^\circ\text{C/W}$
Junction temperature	$T_j$	- 55 to + 150	$^\circ\text{C}$
Storage temperature range	$T_{stg}$	- 55 to + 150	$^\circ\text{C}$

<sup>1)</sup> These ratings are limiting values above which the serviceability of any semiconductor device may be impaired.

### Characteristics at $T_a = 25^\circ\text{C}$

Parameter	Symbol	Min.	Max.	Unit
Forward voltage at $I_F = 0.1$ mA at $I_F = 1$ mA at $I_F = 10$ mA at $I_F = 30$ mA at $I_F = 100$ mA	$V_F$	-	240 320 400 500 1000	mV
Reverse current at $V_R = 25$ V	$I_R$	-	2	$\mu\text{A}$
Breakdown voltage at $I_R = 10$ $\mu\text{A}$	$V_R$	30	-	V
Total capacitance at $V_R = 1$ V, $f = 1$ MHz	$C_{tot}$	-	10	pF
Reverse recovery time at $I_F = 10$ mA, $I_R = 10$ mA, $I_{RR} = 1$ mA, $R_L = 100$ $\Omega$	$t_{rr}$	-	5	ns