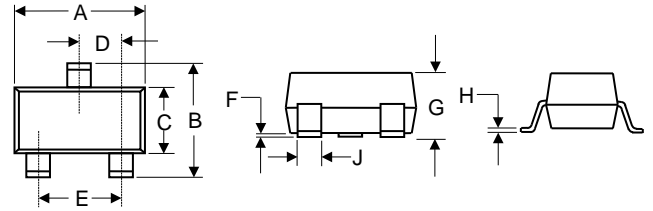
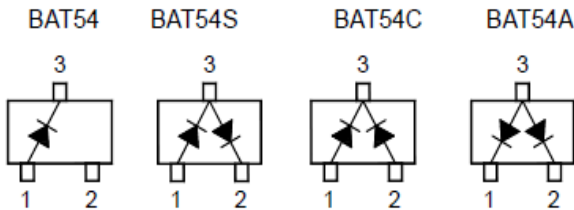


Features

- * BAT54 Marking Code: L4
- BAT54A Marking Code: L42
- BAT54C Marking Code: L43
- BAT54S Marking Code: L44



RoHS
COMPLIANT



DIM	SOT-23			
	INCHES		MM	
	MIN	MAX	MIN	MAX
A	0.110	0.120	2.80	3.04
B	0.087	0.102	2.20	2.60
C	0.047	0.055	1.20	1.40
D	0.035	0.04	0.89	1.02
E	0.070	0.080	1.78	2.04
F	---	0.004	---	0.10
G	0.035	0.047	0.89	1.20
H	0.003	0.008	0.08	0.19
J	0.015	0.02	0.37	0.51

Maximum Ratings (T_A=25°C unless otherwise noted)

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 _{θJA}	430	°C/W
Junction temperature	T _j	- 55 to + 150	°C
Storage temperature range	T _{stg}	- 55 to + 150	°C

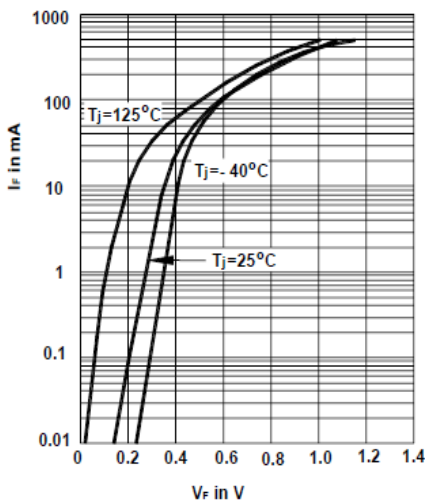
Note: 1) These ratings are limiting values above which the serviceability of any semiconductor device may be impaired.

Electrical Characteristics (T_A=25°C unless otherwise noted)

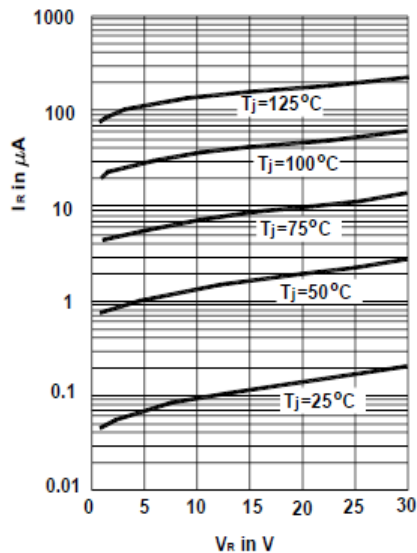
Parameter	Symbol	Min.	Max.	Unit
Forward voltage at I _F = 0.1 mA at I _F = 1 mA at I _F = 10 mA at I _F = 30 mA at I _F = 100 mA	V _F	-	240 320 400 500 1000	mV
Reverse current at V _R = 25 V	I _R	-	2	μA
Breakdown voltage at I _R = 10 μA	V _R	30	-	V
Total capacitance at V _R = 1 V, f = 1 MHz	C _{tot}	-	10	pF
Reverse recovery time at I _F = 10 mA, I _R = 10 mA, I _{RR} = 1 mA, R _L = 100 Ω	t _{rr}	-	5	ns

Ratings and Characteristic Curves

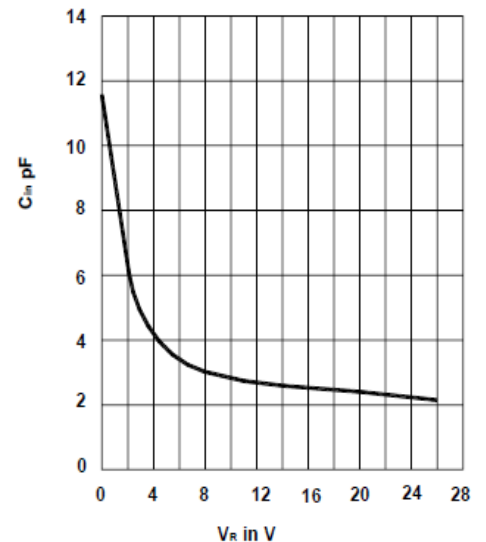
**Typical Forward Voltage
Forward Current
at Various Temperatures**



**Typical Variation of Reverse
Current at Various Temperatures**



**Typical Capacitance⁰C vs.
Reverse Applied Voltage V_R**





BAT54 / A / C / S
Surface Mount Schottky Barrier Diodes

Ordering Information

Part No.	Package	Packing Code	Packing
BAT54 / A / C / S	SOT-23	R30	3000pcs/Reel

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