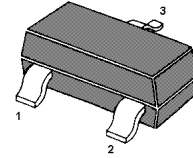
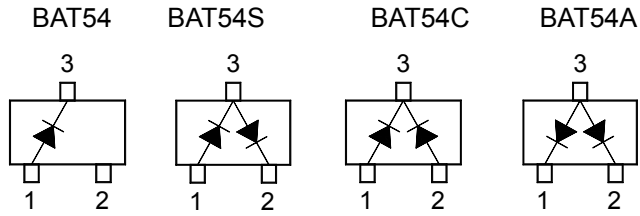


BAT54 / A / C / S

Schottky Barrier Diodes



BAT54 Marking Code: **L4**
 BAT54A Marking Code: **L42**
 BAT54C Marking Code: **L43**
 BAT54S Marking Code: **L44**
 TO-236 Plastic Package

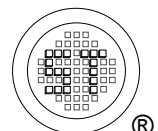
Absolute Maximum Ratings¹⁾ (T_a = 25°C)

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

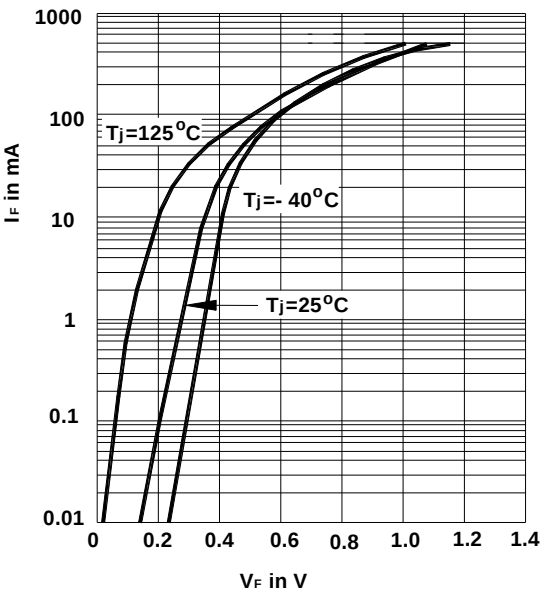
¹⁾ These ratings are limiting values above which the serviceability of any semiconductor device may be impaired.

Characteristics at T_a = 25°C

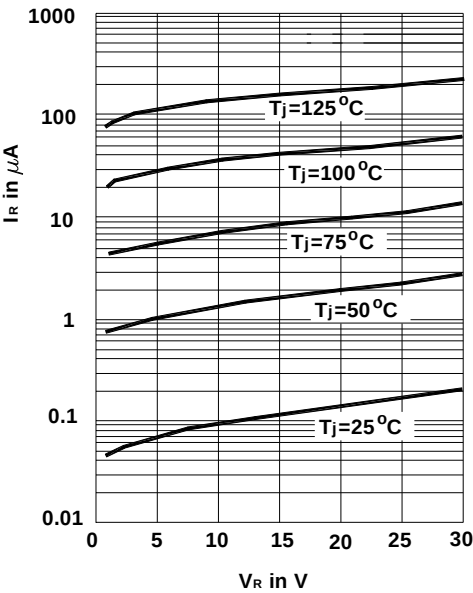
Parameter	Symbol	Min.	Max.	Unit
Forward voltage at I _F = 0.1 mA at I _F = 1 mA at I _F = 10 mA at I _F = 30 mA at I _F = 100 mA	V _F	- - - - -	240 320 400 500 800	mV
Reverse current at V _R = 25 V	I _R	-	2	μA
Breakdown voltage at I _R = 10 μA	V _R	30	-	V
Total capacitance at V _R = 1 V, f = 1 MHz	C _{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



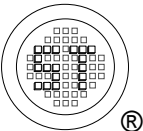
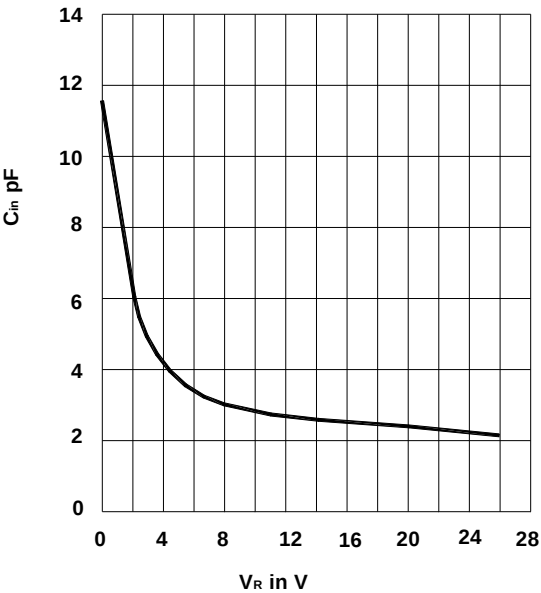
Typical Forward Voltage
Forward Current
at Various Temperatures



Typical Variation of Reverse
Current at Various Temperatures



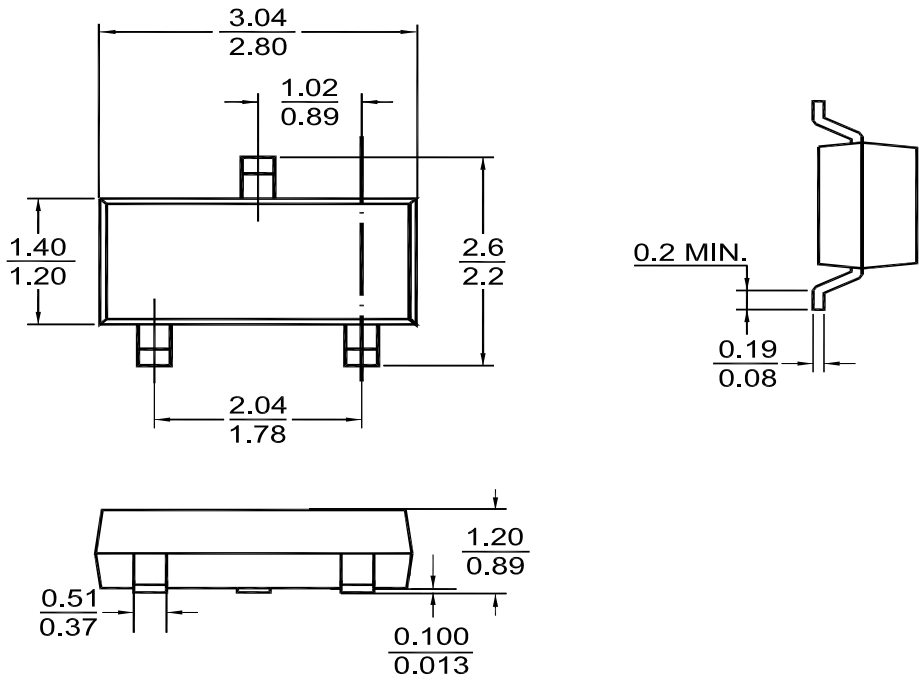
Typical Capacitance $^{\circ}\text{C}$ vs.
Reverse Applied Voltage V_R



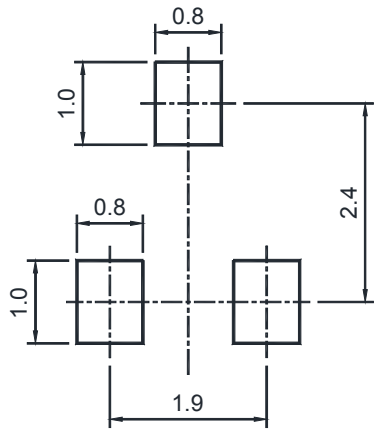
PACKAGE OUTLINE

Plastic surface mounted package (Dimensions in mm)

TO-236



Recommended Soldering Footprint



Packing information

Package	Tape Width (mm)	Pitch		Reel Size		Per Reel Packing Quantity
		mm	inch	mm	inch	
TO-236	8	4 ± 0.1	0.157 ± 0.004	178	7	3,000

