

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<sub>a</sub> = 25°C)**

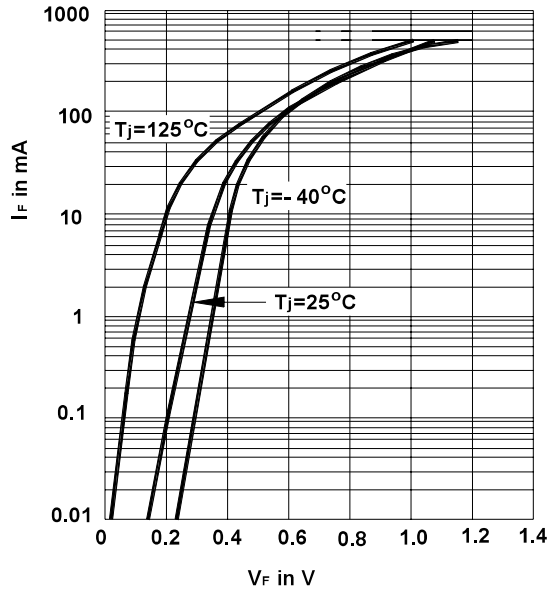
Parameter	Symbol	Limits	Unit
Repetitive peak reverse voltage	V <sub>RRM</sub>	30	V
Average rectified forward current	I <sub>F(AV)</sub>	200	mA
Repetitive Peak Forward Current	I <sub>FRM</sub>	300	mA
Non-repetitive peak forward surge current at Pulse width=1 second	I <sub>FSM</sub>	600	mA
Power dissipation	P <sub>tot</sub>	290	mW
Thermal resistance junction to ambient air	R <sub>0JA</sub>	430	°C/W
Junction temperature	T <sub>j</sub>	- 55 to + 150	°C
Storage temperature range	T <sub>stg</sub>	- 55 to + 150	°C

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

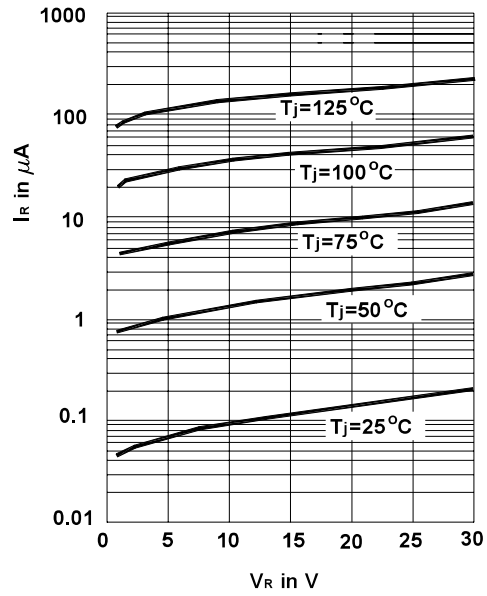
**Characteristics at T<sub>a</sub> = 25°C**

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

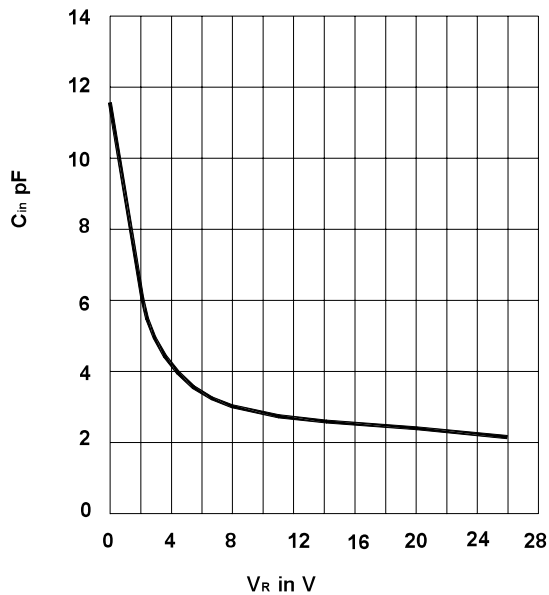
Typical Forward Voltage  
Forward Current  
at Various Temperatures



Typical Variation of Reverse  
Current at Various Temperatures



Typical Capacitance vs.  
Reverse Applied Voltage  $V_R$



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