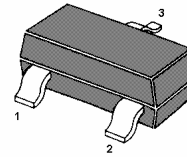


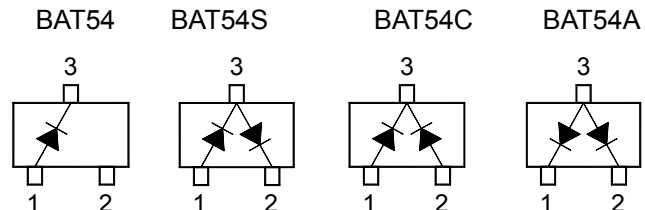
BAT54 / A / C / S

SCHOTTKY DIODES

SOT-23



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



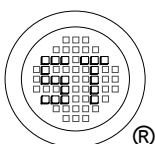
Absolute Maximum Ratings¹⁾ (T_a = 25°C)

Parameter	Symbol	Limits	Unit
Repetitive peak reverse voltage	V _{RRM}	30	V
Average rectified forward current	I _{F(AV)}	200	mA
Non-repetitive peak forward surge current at Pulse width=1.0 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 _s	-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 = 0.1mA	V _F	-	240	mV
at I _F = 1mA	V _F	-	320	mV
at I _F = 10mA	V _F	-	400	mV
at I _F = 30mA	V _F	-	500	mV
at I _F = 100mA	V _F	-	1000	mV
Reverse current at V _R = 25V	I _R	-	2	μA
Breakdown voltage at I _R = 10μA	V _R	30	-	V
Total capacitance at V _R = 1V, f = 1MHz	C _{tot}	-	10	pF
Reverse recovery time at I _F = 10mA, I _R = 10mA, I _{RR} = 1mA, R _L = 100Ω	t _{rr}	-	5	ns



SEMTECH ELECTRONICS LTD.

(Subsidiary of Sino-Tech International Holdings Limited, a company
listed on the Hong Kong Stock Exchange, Stock Code: 724)



ISO/TS 16949 : 2002
Certificate No. 05103



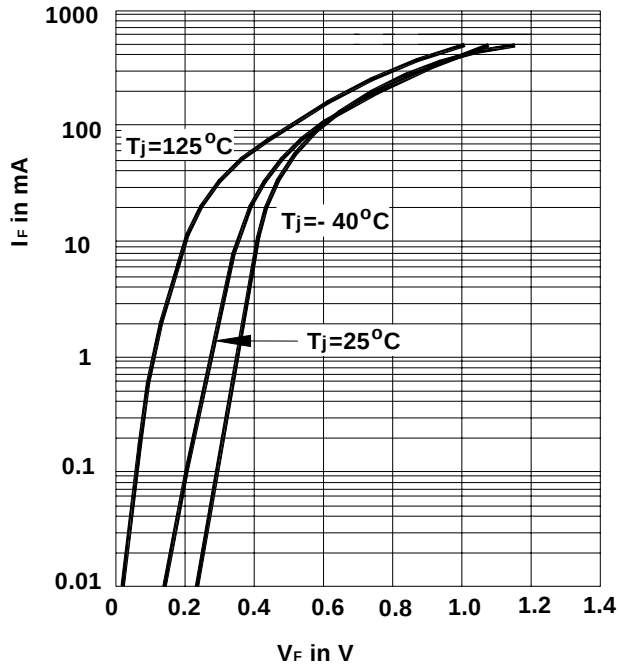
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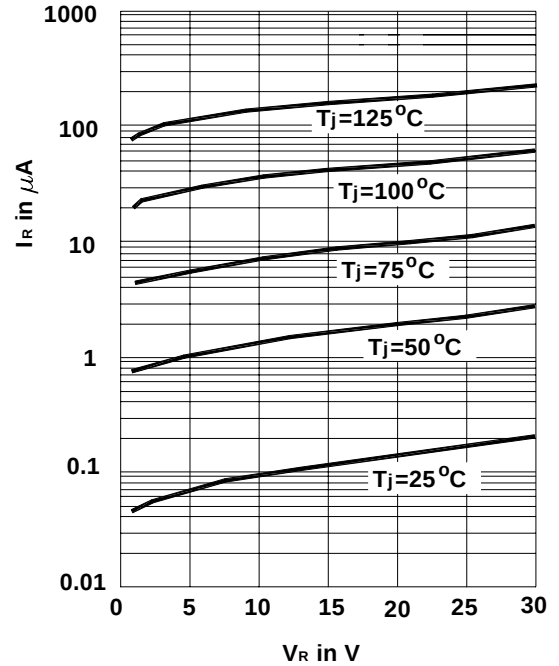
ISO 9001:2000
Certificate No. 0506098

Dated : 19/10/2005

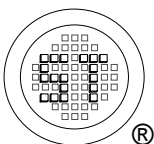
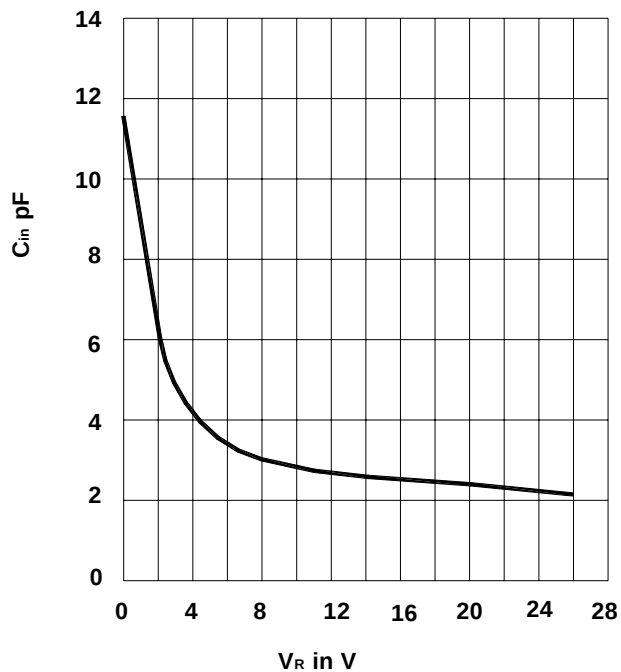
**Typical Forward Voltage
Forward Current
at Various Temperatures**



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



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



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Dated : 19/10/2005