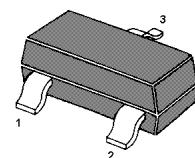
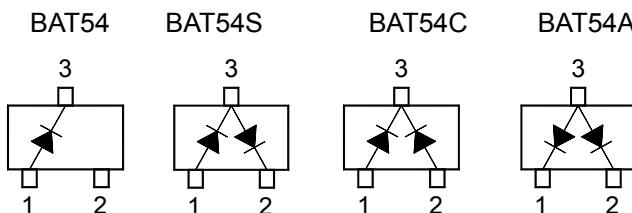


BAT54 / A / C / S

SCHOTTKY BARRIER DIODES



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

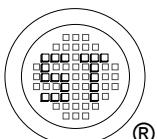
Absolute Maximum Ratings¹⁾ ($T_a = 25^\circ\text{C}$)

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	°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.

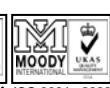
Characteristics at $T_a = 25^\circ\text{C}$

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



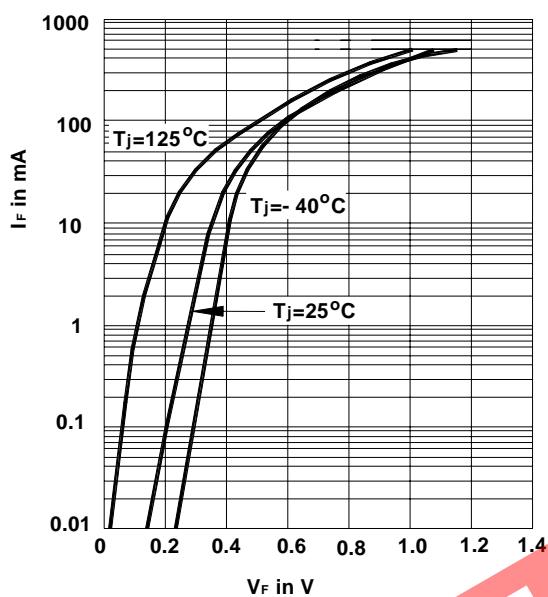
SEMTECH ELECTRONICS LTD.

Subsidiary of Sino-Tech International (BVI) Limited

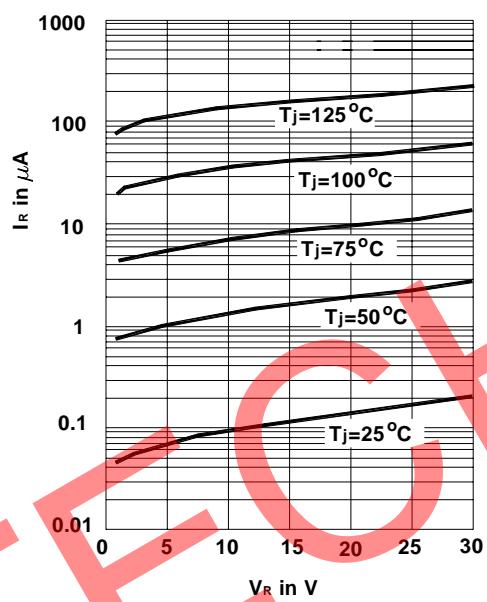


ISO/TS 16949 : 2009 ISO 14001 : 2004 ISO 9001 : 2008 BS-OHSAS 18001 : 2007 IECQ QC 080000 Certificate No. 05103 Certificate No. 7116 Certificate No. 050098 Certificate No. 7116 Certificate No. PCH194481

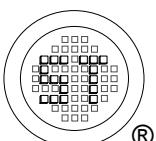
**Typical Forward Voltage
Forward Current
at Various Temperatures**



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



**Typical Capacitance °C vs.
Reverse Applied Voltage VR**



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ISO/TS 16949:2009 ISO 14001:2004 ISO 9001:2008 BS-OHSAS 18001:2007 IECQ QC 080000 SGS

Certificate No. 05103 Certificate No. 7116 Certificate No. 050098 Certificate No. 7116 Certificate No. PCTI94465

Dated: 03/02/2012 Rev: 01