















ESD

TVS

MOS

LDO

Diode

Sensor

DC-DC

Product Specification

Domestic Part Number	EVBAT54/X-S1
Overseas Part Number	BAT54/X
▶ Equivalent Part Number	BAT54/X

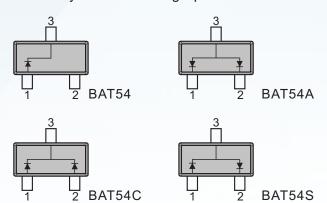
"S1" means SOT-23

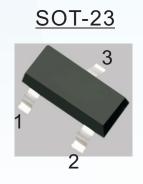




SCHOTTKY BARRIER DIODE FEATURES

• Extremely Fast Switching Speed





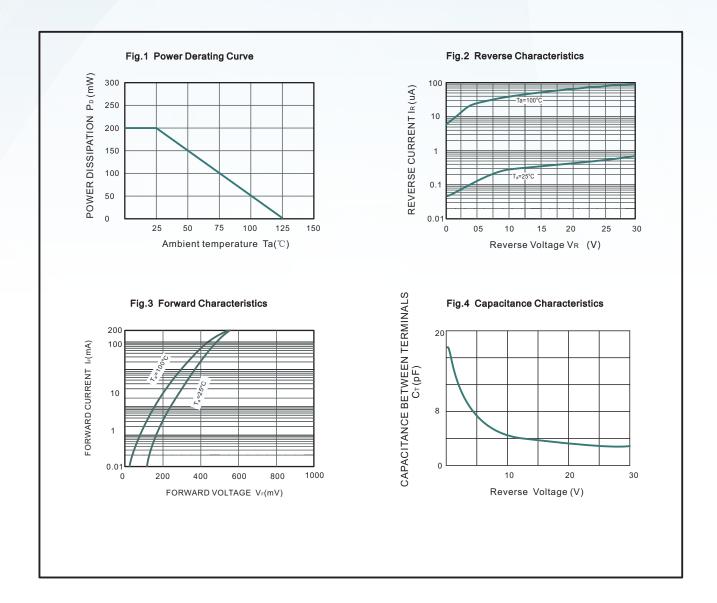
MAXIMUM RATINGS (Ta=25°C unless otherwise noted)

Parameter	Symbol	Value	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	Vrrm Vrwm Vr	30	V
Forward Continuous Current	lғм	200	mA
Non-repetitive Peak Forward Surge Current @ t=8.3ms	IFSM	600	mA
Repetitive Peak Forward Current @ t≤1s,δ≤0.5	IFRM	300	mA
Power Dissipation	Pp	200	mW
Thermal Resistance from Junction to Ambient	RthJA	500	°C/W
Operating Junction Temperature Range	Tj	-40~ +125	°C
Storage Temperature Range	Tstg	-55 ~ +150	°C

ELECTRICAL CHARACTERISTICS(Ta=25°C unless otherwise specified)

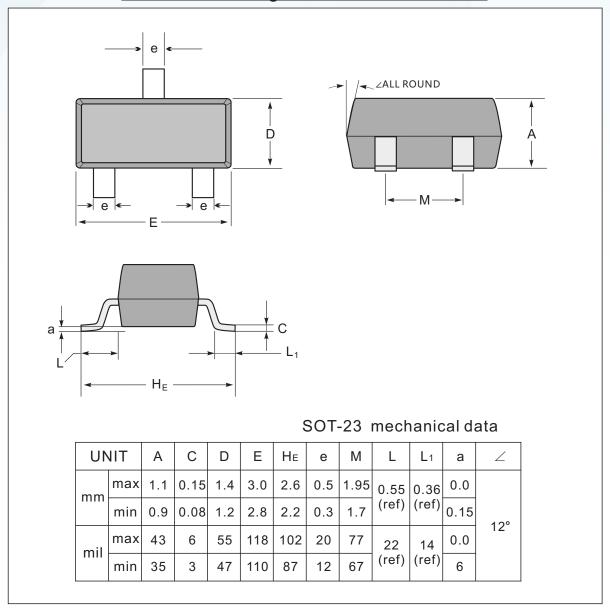
Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Reverse voltage	VBR	IR=100μA	30			V
Reverse current	IR	V _R =25V			2	uA
Forward voltage	Vf	I _{F1} =0.1mA			0.24	V
		I _{F2} =1mA			0.32	V
		IF3=10mA			0.40	V
		IF4=30mA			0.50	V
		IF5=100mA			1	V
Diode capacitance	Сп	V _R =4V, f=1MHz		10		рF
Reverse recovery time	trr	IF= IR=10mA, Irr=0.1×IR , RL=100Ω			5	ns



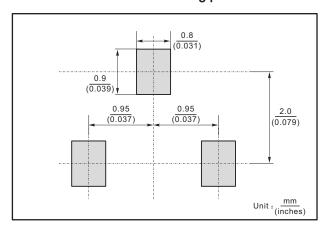




SOT-23 Package Outline Dimensions



The recommended mounting pad size



Marking

Type number	Marking code		
BAT54	KL1		
BAT54A	KL2		
BAT54C	KL3		
BAT54S	KL4		



Disclaimer

EVVOSEMI ("EVVO") reserves the right to make corrections, enhancements, improvements, and other changes to its products and services at any time, and to discontinue any product or service without notice.

EVVO warrants the performance of its hardware products to the specifications applicable at the time of sale in accordance with its standard warranty. Testing and other quality control techniques are used as deemed necessary by EVVO to support this warranty. Except where mandated by government requirements, testing of all parameters of each product is not necessarily performed.

Customers should obtain and confirm the latest product information and specifications before final design, purchase, or use. EVVO makes no warranty, representation, or guarantee regarding the suitability of its products for any particular purpose, nor does EVVO assume any liability for application assistance or customer product design. EVVO does not warrant or accept any liability for products that are purchased or used for any unintended or unauthorized application.

EVVO products are not authorized for use as critical components in life support devices or systems without the express written approval of EVVOSEMI.

The EVVO logo and EVVOSEMI are trademarks of EVVOSEMI or its subsidiaries in relevant jurisdictions. EVVO reserves the right to make changes without further notice to any products herein.