

# EVVOSEMI<sup>®</sup>

THINK CHANGE DO



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

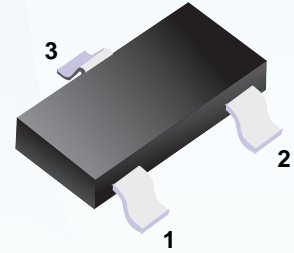
"S1" means SOT-23

EV is the abbreviation of name EVVO

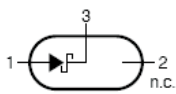
## ■ Schottky Diodes

### ■ Features

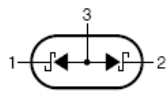
- Low forward voltage
- Guard ring protected
- Small plastic SMD package.



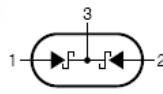
■ Simplified outline(SOT-23)



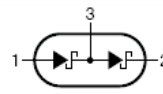
EVBAT54-S1



EVBAT54A-S1



EVBAT54C-S1



EVBAT54S-S1

### ■ Absolute Maximum Ratings Ta = 25°C

Parameter	Symbol	Rating	Unit
Maximum Repetitive Reverse Voltage	V <sub>RRM</sub>	30	V
Average Rectified Forward Current	I <sub>F(AV)</sub>	200	mA
Non-repetitive Peak Forward Surge Current Pulse width = 1.0 second	I <sub>FSM</sub>	600	mA
Power Dissipation	P <sub>D</sub>	200	mW
Thermal Resistance, Junction to Ambient	R <sub>θJA</sub>	430	°C/W
Storage Temperature Range	T <sub>stg</sub>	-55 to +150	°C
Operating Junction Temperature	T <sub>J</sub>	150	°C

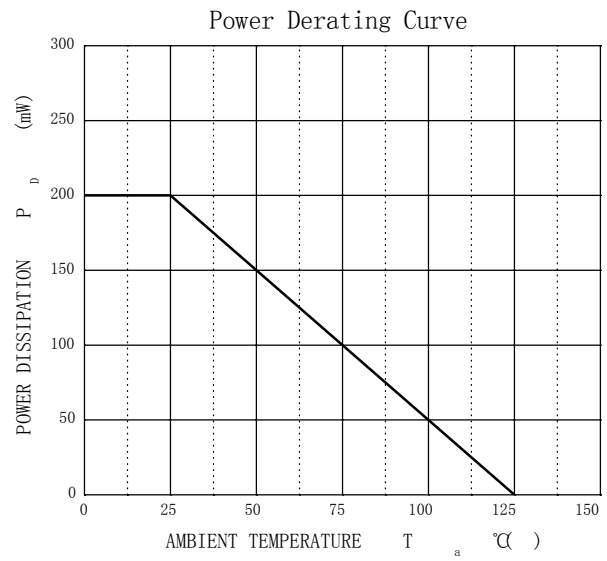
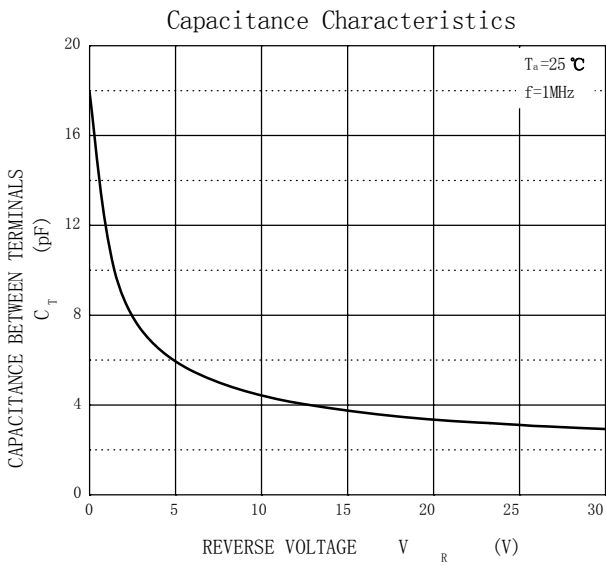
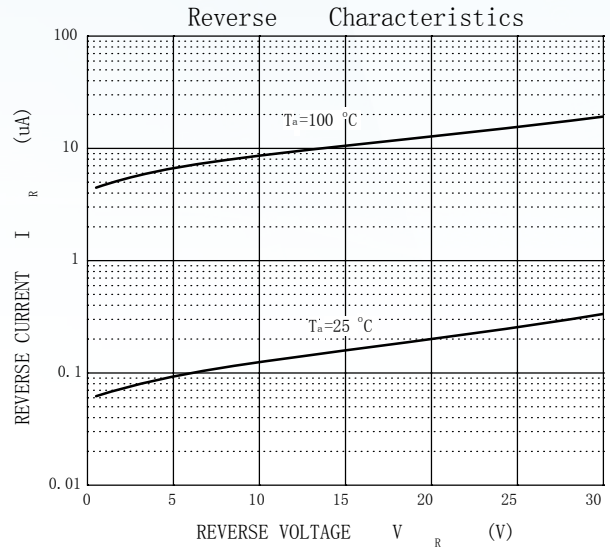
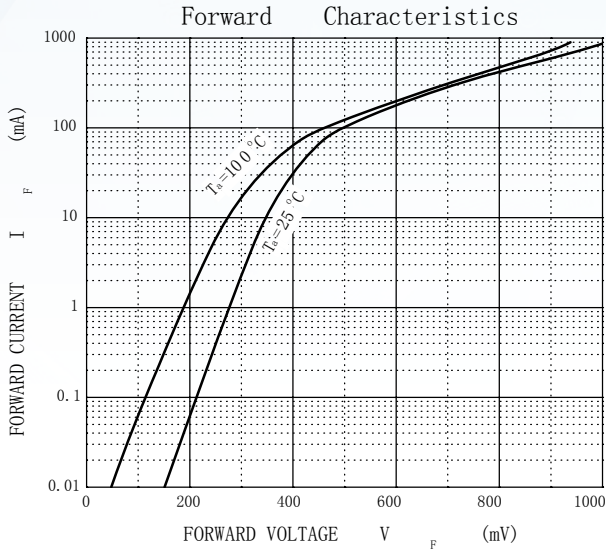
### ■ Electrical Characteristics Ta = 25°C

Parameter	Symbol	Testconditions	Min	Typ	Max	Unit
Breakdown Voltage	V <sub>R</sub>	I <sub>R</sub> = 100 μA	30			V
Forward Voltage	V <sub>F</sub>	I <sub>F</sub> = 0.1 mA			240	mV
		I <sub>F</sub> = 1 mA			320	mV
		I <sub>F</sub> = 10 mA			400	mV
		I <sub>F</sub> = 30 mA			500	mV
		I <sub>F</sub> = 100 mA			0.8	V
Reverse Current	I <sub>R</sub>	V <sub>R</sub> = 25 V			2	μA
Total Capacitance	C <sub>T</sub>	V <sub>R</sub> = 1V, f = 1.0 MHz			10	pF
Reverse Recovery Time	t <sub>rr</sub>	I <sub>F</sub> = I <sub>R</sub> = 10 mA, I <sub>RR</sub> = 1.0 mA, R <sub>L</sub> = 100Ω			5	ns

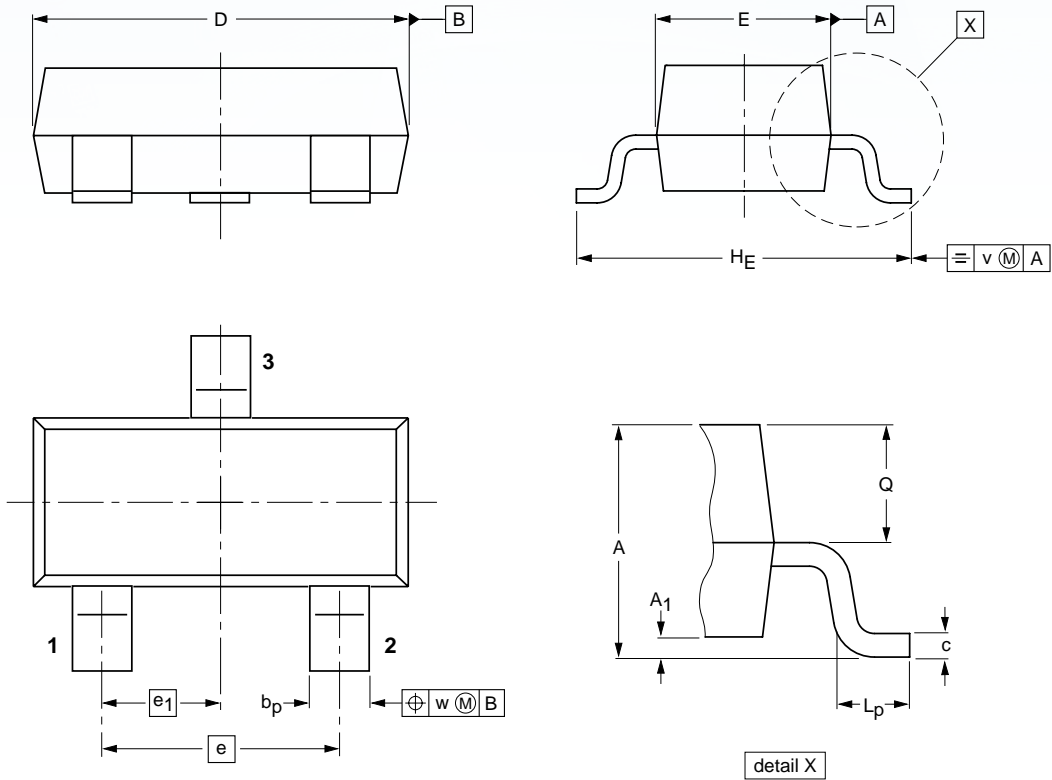
### ■ Marking

TYPE	EVBAT54-S1	EVBAT54A-S1	EVBAT54C-S1	EVBAT54S-S1
Marking	KL1	L42 or KL2	L43 or KL3	L44 or KL4

■ Typical Characteristics



■ SOT-23



DIMENSIONS (mm are the original dimensions)

UNIT	A	A <sub>1</sub> max.	b <sub>p</sub>	c	D	E	e	e <sub>1</sub>	H <sub>E</sub>	L <sub>p</sub>	Q	v	w
mm	1.1 0.9	0.1	0.48 0.38	0.15 0.09	3.0 2.8	1.4 1.2	1.9	0.95	2.5 2.1	0.45 0.15	0.55 0.45	0.2	0.1

## 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.