















ESD

TVS

LDO

Diode

Sensor

DC-DC

Product Specification

Domestic Part Number	EVBAT54WA-SD
Overseas Part Number	BAT54WA
▶ Equivalent Part Number	BAT54WA

"SD" means SOD-123





SCHOTTKY BARRIER RECTIFIERS FEATURES

- Metal silicon junction, majority carrier conduction
- Guarding for overvoltage protection
- Low power loss, high efficiency
- High current capability
- · low forward voltage drop
- High surge capability
- For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications

MECHANICAL DATA

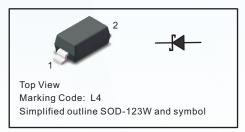
Case: SOD-123W

■Terminals: Solderable per MIL-STD-750, Method 2026

Approx. Weight:16mg/0.00056oz

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



Maximum Ratings and Electrical characteristics

Ratings at 25 °C ambient temperature unless otherwise specified.

Parameter	Symbols	BAT54WA	Units
Peak Repetitive Reverse Voltage	V_{RRM}	30	V
RMS reverse voltage	$V_{R(RMS)}$	21	V
Maximum Average Forward Current at Ta=25℃	Io	0.2	А
Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	0.6	А
Maximum Instantaneous Forward Voltage	V _F	0.32 @ IF=0.001A 1.0 @ IF=0.1A	V
Maximum DC Reverse Current at Rated DC Blocking Voltage	I _R	2.0 @VR=25V	uA
Typical Thermal Resistance	$R_{\theta JA}$	610	°C/W
Typical Junction Capacitance at V_R =0V, f=1MHz	C _j	60	pF
Storage and Operating Junction Temperature Range	T_{j},T_{stg}	-55 ~ +125	°C

NOTES:(1)P.C.B. mounted with 5*5mm copper pad areas.



Fig.1 Forward Current Derating Curve

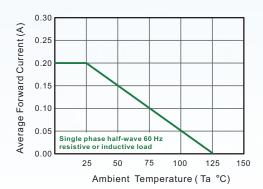


Fig.2 Typical Reverse Characteristics

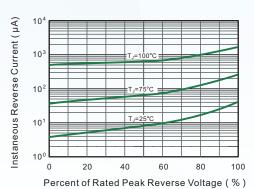


Fig.4 Typical Forward Characteristics

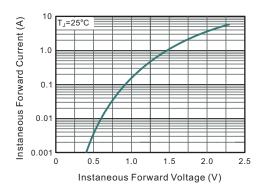


Fig.4 Typical Junction Capacitance

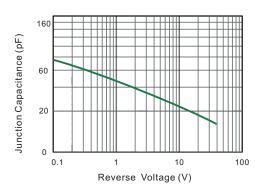
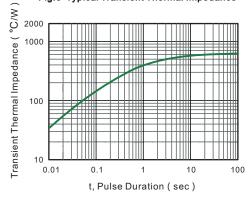


Fig.5 Typical Transient Thermal Impedance

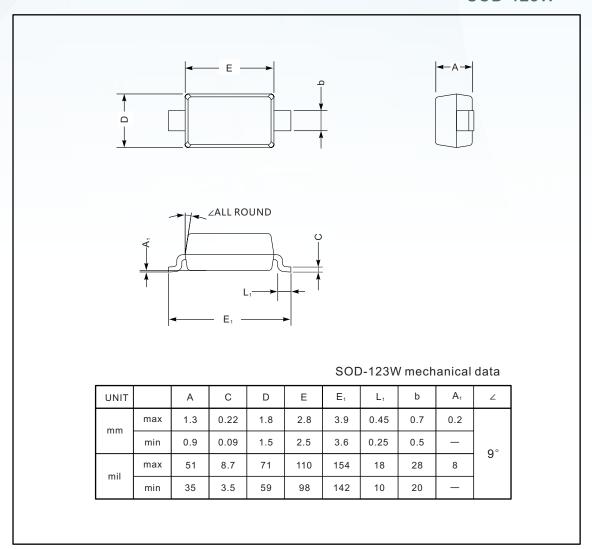




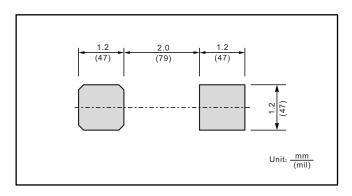
PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SOD-123W



The recommended mounting pad size



Marking

Type number	Marking code
BAT54WA	L4



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