















ESD

TVS

MOS

LDO

Diode

Sensor

DC-DC

Product Specification

Domestic Part Number	EV1N4448W-SD
Overseas Part Number	1N4448W
▶ Equivalent Part Number	1N4448W

"SD" means SOD-123W





FEATURES

For surface mounted applications

• Fast reverse recovery time

Ideal for automated placement

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



Absolute Maximum Ratings at 25 °C

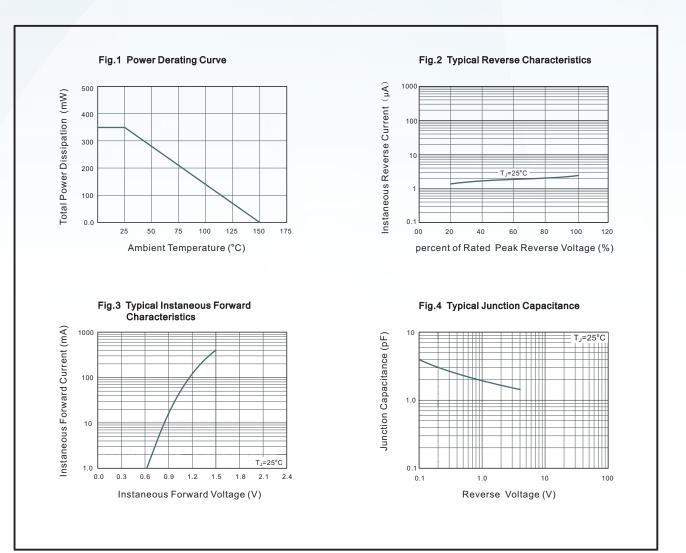
Parameter	Symbols	1N4448W	Units
Non-Repetitive Peak Reverse Voltage	V_{RM}	100	V
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Reverse Voltage	V _{RRM} V _{RWM} V _R	75	V
RMS Reverse Voltage	V _{R(RMS)}	53	V
Forward Continuous Current	I _{FM}	500	mA
Average Rectified Output Current	Io	250	mA
Non-Repetitive Peak Forward Surge Current @t=1.0 µs @t=1.0 s	I _{FSM}	4.0 2.0	А
Power Dissipation	P _d	350	mW
Thermal Resistance Junction to Ambient Air	R _{thJA}	357	°C/W
Operating and Storage Temperature Rage	T_j, T_{stg}	-65 ~ +150	°C

Characteristics at T_a = 25 °C

Paramet	er	Symbols	1N4448W	Units
Reverse BreakdownVoltag	e at I _R =1.0μA	$V_{(BR)R}$	75(min)	V
Forward Voltage	at 5 m A at 10 m A at 100 m A at 150 m A	V _F	0.62(min) 0.72(max) 0.855(max) 1.00(max) 1.25(max)	V
Peak Reverse Current	at V_R =75 V at V_R =20 V	I _R	2.5(max) 25(max)	μA nA
Typical Junction Capacitan	ce f=1MHz,V _R =0V	C _j	4(max)	pF
Maximum Reverse Recove	ry Time ⁽¹⁾	t _{rr}	4	ns

^(1) Measured with IF=IR=10mA,Irr=0.1xIR,RL=100 Ω



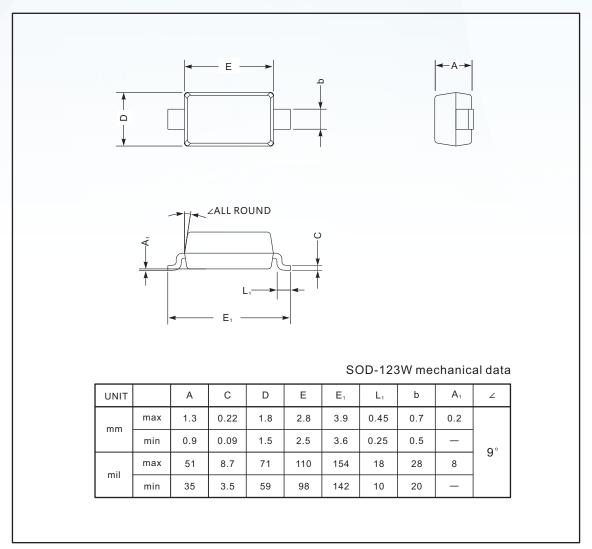




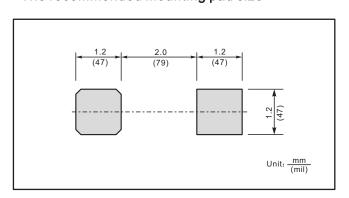
PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SOD-123W



The recommended mounting pad size



Marking

Type number	Marking code
1N4448W	T5



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.