



SCHOTTKY BARRIER RECTIFIERS

FEATURES

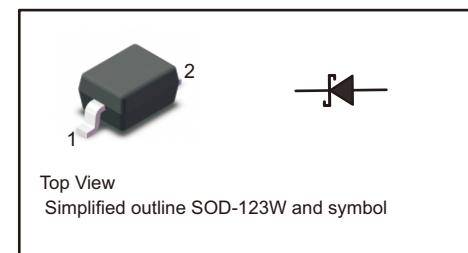
- Low Forward Voltage Drop
- Fast Switching Time
- Surface Mount Package Ideally Suited for Automated Insertion
- Lead, Halogen and Antimony Free, RoHS Compliant "Green" Device

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

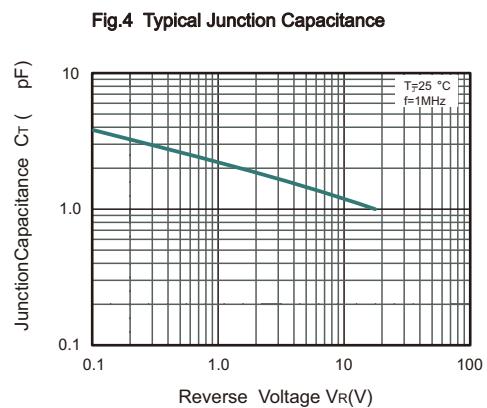
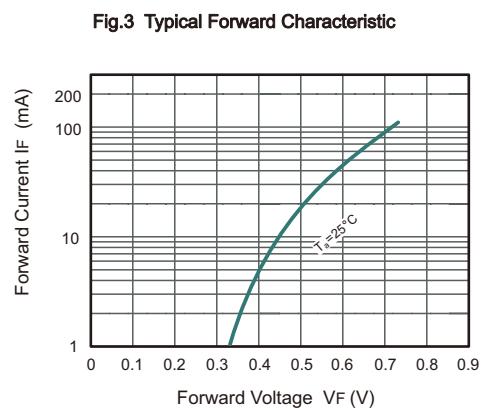
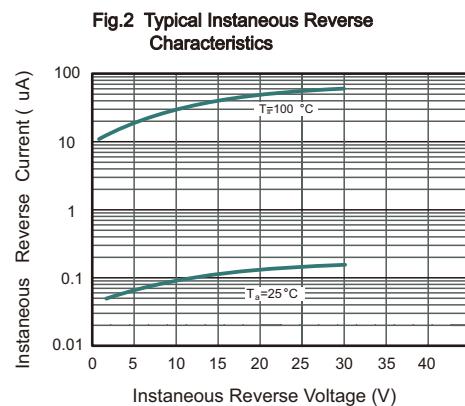
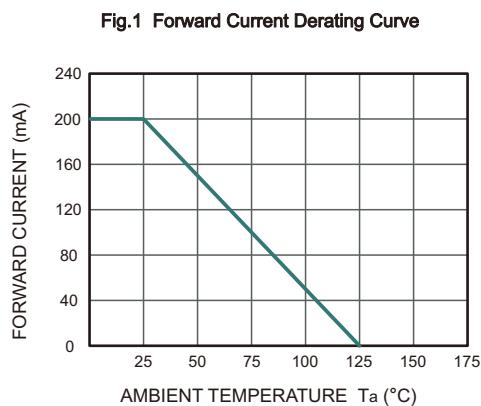


Maximum Ratings and Electrical characteristics

Ratings at 25 °C ambient temperature unless otherwise specified.

Parameter	Symbols	BAS40WA	Units	
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V_{RRM} V_{RWM} V_R	40	V	
RMS Reverse Voltage	$V_{R(RMS)}$	28	V	
Forward Continuous Current	I_F	0.2	A	
Non-Repetitive Peak Forward Surge Current @t = 8.3ms	I_{FSM}	0.6	A	
Power dissipation	P_D	200	mW	
Reverse Breakdown Voltage	$I_R = 10\mu A$	V_{BR}	V	
Forward Voltage (NOTE 2)	$I_F = 1.0mA$ $I_F = 10 mA$ $I_F = 40 mA$	V_F	0.38 0.50 1.0	V
Peak Reverse Current	$V_{R1}=30V, T_j=25^\circ C$	I_R	0.2	uA
Typical Junction Capacitance	$V_R=0V, f=1MHz$	C_T	5.0	pF
Reverse Recovery Time	$I_F = I_R = 10mA$, $I_{rr} = 0.1 \times I_R$, $R_L = 100\Omega$	t_{rr}	5	ns
Thermal Resistance, Junction to Ambient Air (NOTE 1)	$R_{\theta JA}$	500	°C/W	
Junction Temperature	T_j	125	°C	
Storage Temperature	T_{stg}	-55 ~ +150	°C	

Notes: 1. Part mounted on FR-4 board with recommended pad layout.
2. Short duration pulse test used to minimize self-heating effect.

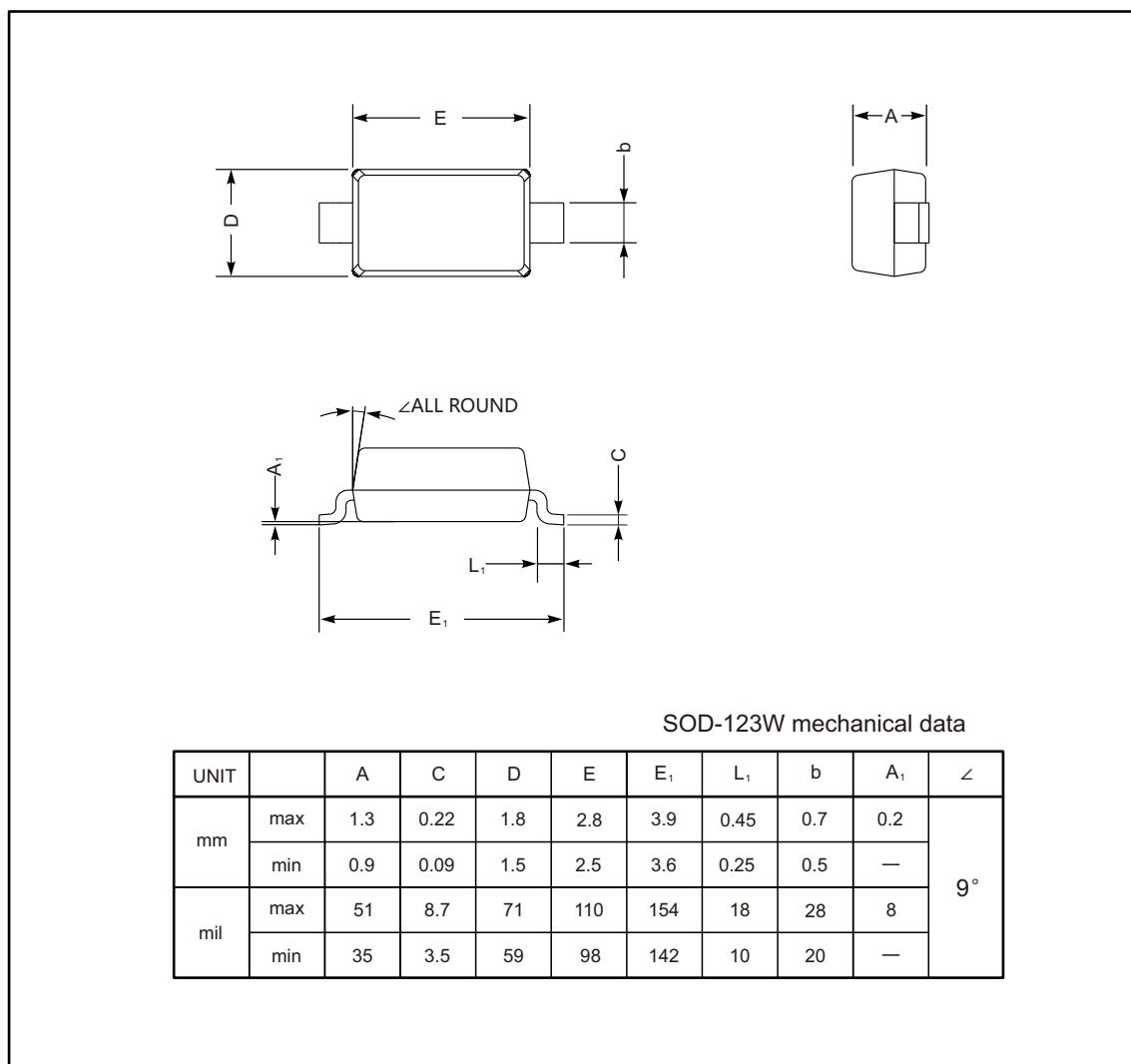




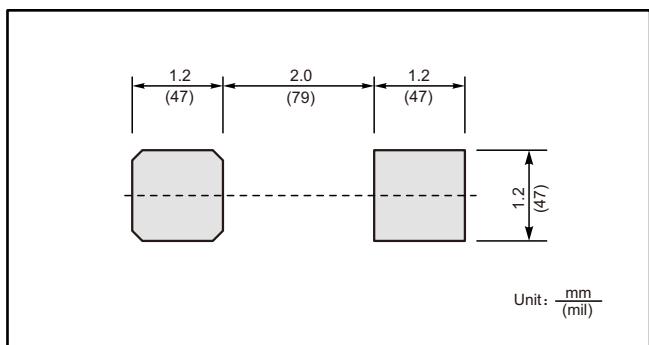
PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SOD-123W



The recommended mounting pad size



Marking

Type number	Marking code
BAS40WA	40



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