















ESD

TVS

MOS

LDO

Diode

Sensor

DC-DC

Product Specification

Domestic Part Number	SD103AW THRU SD103CW
Overseas Part Number	SD103AW THRU SD103CW
▶ Equivalent Part Number	SD103AW THRU SD103CW





Schottky Barrier Diode FEATURES

- •Low Forward Voltage Drop
- •Guard Ring Construction for Transient Protection
- •Negligible Reverse Recovery Time
- Low Capacitance

MECHANICAL DATA

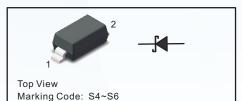
-Case: SOD-123

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

Approx. Weight:16mg/0.00056oz

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



Simplified outline SOD-123 and symbol

Maximum Ratings and Electrical characteristics

Ratings at 25 $^{\circ}\text{C}$ ambient temperature unless otherwise specified.

Parameter		Symbols	SD103AW	SD103BW	SD103CW	Units
Peak Repetitive Reverse Voltage		V_{RRM}	40	30	20	V
RMS reverse voltage		V _{RMS}	28	21	14	V
Working Peak Reverse Voltage		V _{DC}	40	30	20	V
Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load (JEDEC method)		I _{FSM}	13			А
Maximum Instantaneous Forward Voltage	I==20mA		0.37			,,
waxiiiuiii iiistantaneousi oi waru voitage	I _F =200mA	V _F	0.60			V
Power Dissipation		PD		400		mW
	V _R =30V		5	-	_	
Reverse current	V _R =20V	I _R	_	5	_	uA
	V _R =10V		_	-	5	
Thermal Resistance, Junction to Ambient Ai	r	R _{θJA}		300		°C/W
	SD103AW			40		
Reverse voltage I _R =100uA	SD103BW	V(BR)	30			V
	SD103CW			20		
Reverse recovery time I _F =I _R =200mA,Irr=0.1xI _R ,R _L =100Ω		trr	10			ns
Forward Continuons Current		I FM	350		mA	
Total capacitance V _R =0V.f=1MHz		Ctot	28			pF
Junction temperature		Tj	125			°C
Storage temperature		T _{stg}	-55 ~ +150			°C



Fig.1 Power Derating Curve

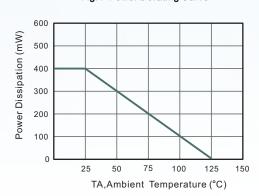


Fig.2 Typical Reverse Characteristics

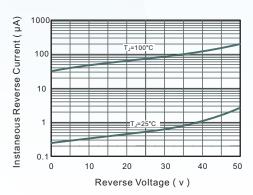


Fig.3 Forward Characteristics

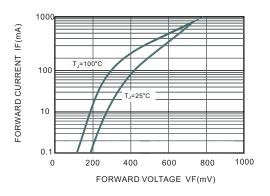


Fig.4 Maximum Non-Repetitive Peak Forward Surage Current

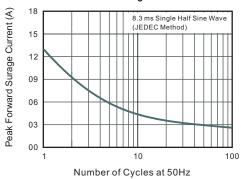


Fig.5 Typical Junction Capacitance

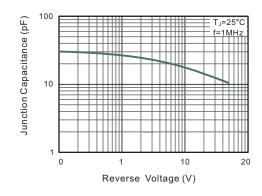
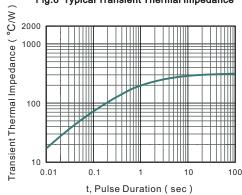


Fig.6 Typical Transient Thermal Impedance

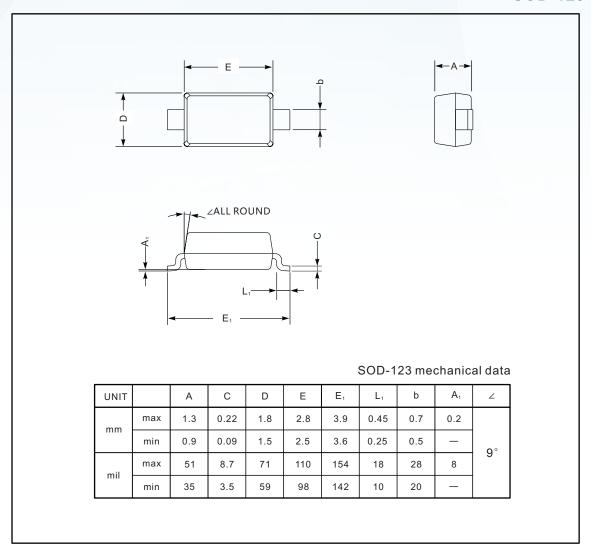




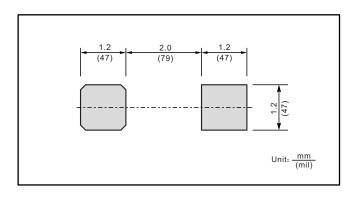
PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SOD-123



The recommended mounting pad size



Marking

Type number	Marking code		
SD103AW	S4		
SD103BW	S5		
SD103CW	\$6		



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