















ESD

TVS

MOS

LDO

Diode

Sensor

DC-DC

Product Specification

Domestic Part Number	SD103AWS THRU SD103CWS
Overseas Part Number	SD103AWS THRU SD103CWS
▶ Equivalent Part Number	SD103AWS THRU SD103CWS





Schottky Barrier Diode FEATURES

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

MECHANICAL DATA

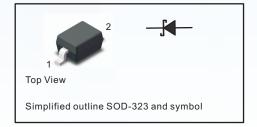
Case: SOD-323

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

Approx. Weight: 5.48mg / 0.00019oz

PINNING

PIN	DESCRIPTION	
1	Cathode	
2	Anode	



Maximum Ratings and Electrical characteristics

Ratings at 25 °C ambient temperature unless otherwise specified.

Parameter			Symbols	SD103AWS	SD103BWS	SD103CWS	Units	
Peak Repetitive Reverse Voltage			V _{RRM}	40	30	20	V	
RMS reverse voltage			V _{RMS}	28	21	14	٧	
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 IF=20mA IF=200mA		V _F	0.37			V		
		V _F	0.60					
Power Dissipation		Pp	200			mW		
	SD10	3AWS,VR=30V		5	-	_		
Reverse current	SD10	3BWS,V _R =20V	I _R	_	5	-	uA	
	SD10	SD103CWS,V _R =10V		_	-	5		
Thermal Resistance, Junction to Ambient Air		R _{θJA}	300			°C/W		
		SD103AW			40			
Reverse voltage	I _R =100uA	SD103BW	V _{(BR)R}		30		V	
	SD103CW			20				
Reverse recovery time I _{F=IR=200mA,Irr=0.1xIR,RL=100Ω}		trr	10			ns		
Forward Continuons Current		І ғм	350			mA		
Total capacitance V _R =0V.f=1MHz		Ctot	50			pF		
Junction temperature			Tj	125			°C	
Storage temperature			T _{stg}	-55 ~ +150			°C	



Fig.1 Power Derating Curve

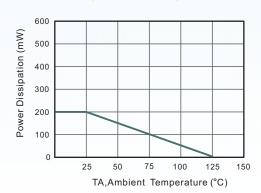


Fig.2 Typical Reverse Characteristics

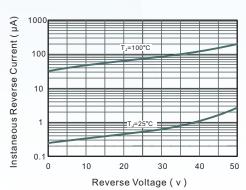


Fig.3 Forward Characteristics

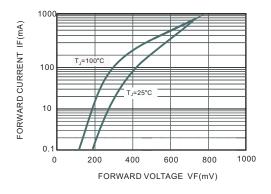


Fig.4 Maximum Non-Repetitive Peak Forward Surage Current

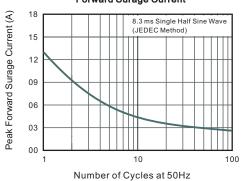


Fig.5 Typical Junction Capacitance

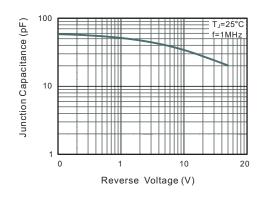
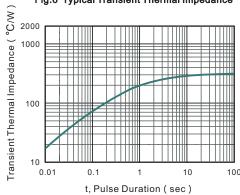


Fig.6 Typical Transient Thermal Impedance

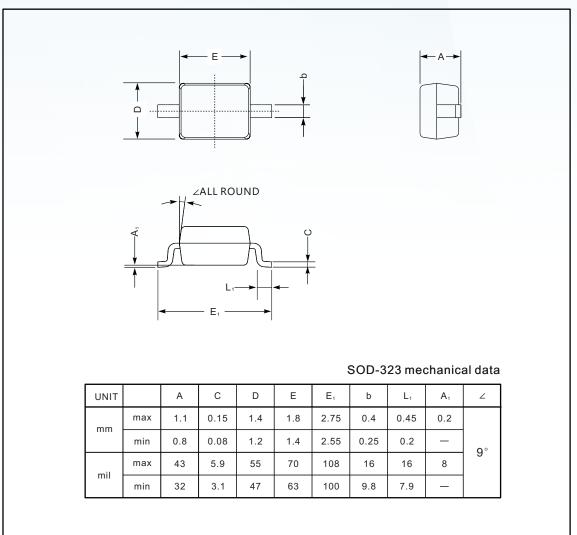




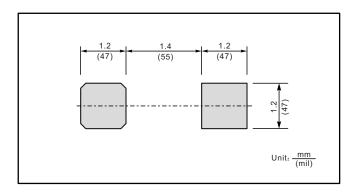
PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SOD-323



The recommended mounting pad size



Marking

Type number	Marking code		
SD103AWS	S4		
SD103BWS	S5		
SD103CWS	S6		



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