

Schottky Barrier Diode FEATURES

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

MECHANICAL DATA

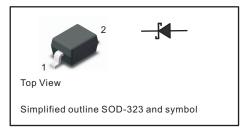
-Case: SOD-323

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

Approx. Weight: 5.48mg / 0.00019oz

PINNING

PIN	DESCRIPTION		
1	Cathode		
2	Anode		

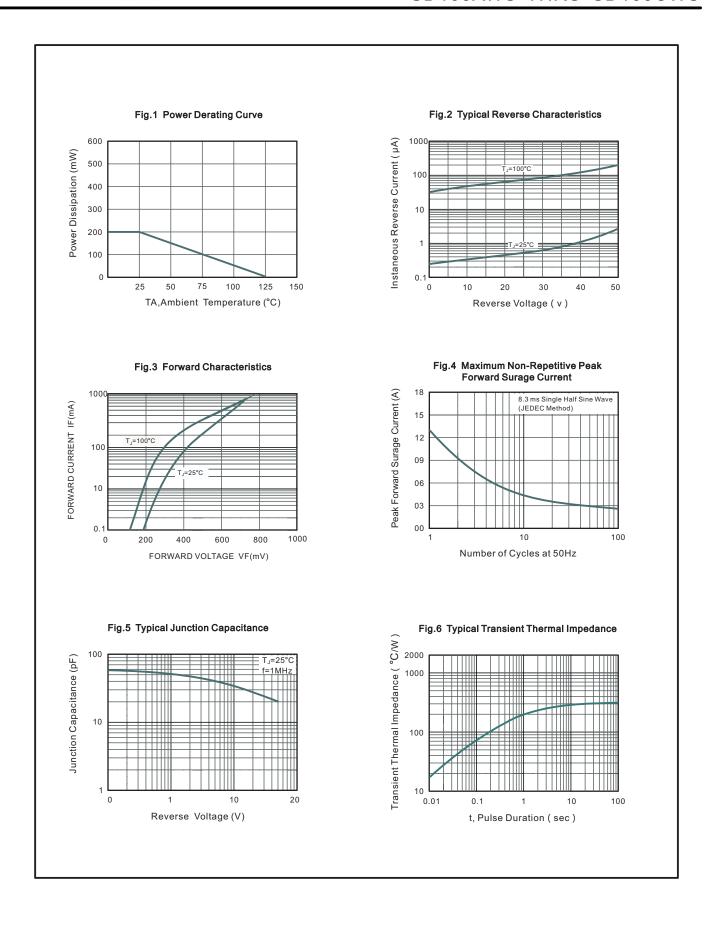


Maximum Ratings and Electrical characteristics

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	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			Α	
IF=20mA Maximum Instantaneous Forward Voltage		V _F	0.37			V		
IF=200mA			V _F	0.60				
Power Dissipation			PD	200			mW	
Reverse current	SD10	3AWS,VR=30V		5	-	_		
	SD10	3BWS,V _R =20V	I _R	_	5	_	uA	
	SD103CWS,V _R =10V			_	-	5		
Thermal Resistance, Junction to Ambient Air			R _{θJA}	300			°C/W	
		SD103AW			40			
Reverse voltage	I _R =100uA SE	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			I FM	350			mA	
Total capacitance V _R =0V.f=1MHz			Ctot	50			pF	
Junction temperature			Tj	125			°C	
Storage temperature			T _{stg}	-55 ~ +150			°C	



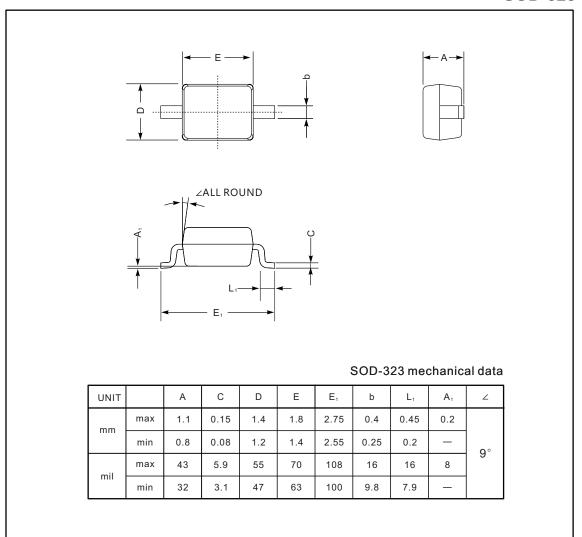




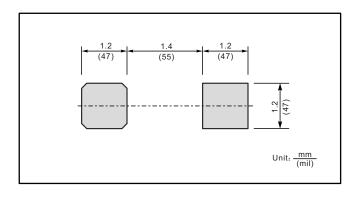
PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SOD-323



The recommended mounting pad size



Marking

Type number	Marking code		
SD103AWS	S4		
SD103BWS	S5		
SD103CWS	\$6		