

Maximum Ratings (@T_A = +25°C, unless otherwise specified.)

Characteristic	Symbol	SD103AWS	SD103BWS	SD103CWS	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	40	30	20	V
RMS Reverse Voltage	V _{R(RMS)}	28	21	14	V
Forward Continuous Current	I _{FM}	I _{FM} 350			mA
Non-Repetitive Peak Forward Surge Current @ 8.3ms Half-Sine Waveform	I _{FSM}	1.5		A	

Thermal Characteristics

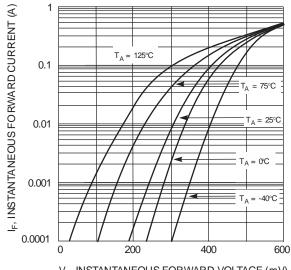
Characteristic	Symbol	Value	Unit
Power Dissipation (Note 6)	P _D	200	mW
Thermal Resistance, Junction to Ambient Air (Note 5)	$R_{\theta JA}$	625	°C/W
Operating and Storage Temperature Range	$T_{J,}T_{STG}$	-65 to +125	°C

Electrical Characteristics (@T_A = +25°C, unless otherwise specified.)

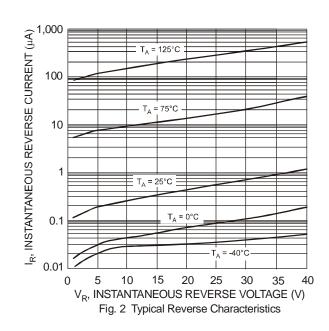
Characteristic		Symbol	Min	Тур	Max	Unit	Test Conditions	
Reverse Breakdown Voltage (Note 6)	SD103AWS SD103BWS SD103CWS	V _{(BR)R}	40 30 20	_	_	٧	$\begin{split} I_R &= 100 \mu A \\ I_R &= 100 \mu A \\ I_R &= 100 \mu A \end{split}$	
Forward Voltage Drop		V _F		_	0.37 0.60	V $I_F = 20mA$ $I_F = 200mA$		
Peak Reverse Current (Note 6)	SD103AWS SD103BWS SD103CWS	I _R			5.0	μΑ	$V_R = 30V$ $V_R = 20V$ $V_R = 10V$	
Total Capacitance		Ст		35	_	pF	$V_R = 0V$, $f = 1.0MHz$	
Reverse Recovery Time		t _{RR}	_	10	_	ns	$\begin{split} I_F &= I_R = 200 mA, \\ I_{RR} &= 0.1 \text{ x } I_R, R_L = 100 \Omega \end{split}$	

Notes:

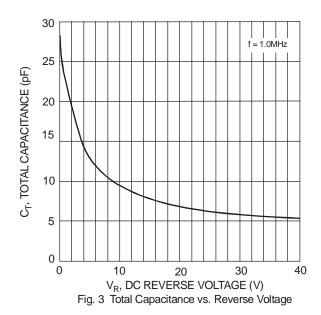
- 5. Device mounted on Alumina ceramic PC board, single-sided, 2oz copper pad area 25mm².
- 6. Short duration test pulse used to minimize self-heating effect.

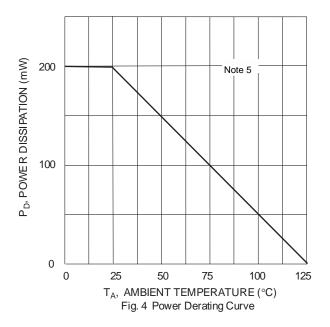


V_F, INSTANTANEOUS FORWARD VOLTAGE (mV) Fig. 1 Typical Forward Characteristics





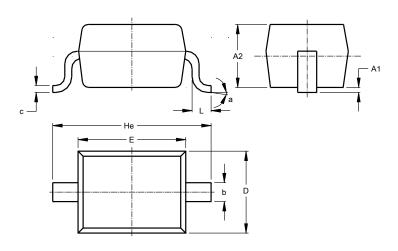




Package Outline Dimensions

Please see http://www.diodes.com/package-outlines.html for the latest version.

SOD323

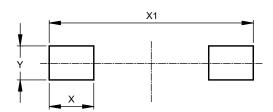


SOD323						
Dim	Min	Max	Тур			
A1		0.10	0.05			
A2	1.00	1.10	1.05			
b	0.25	0.35	0.30			
С	0.10	0.15	0.11			
D	1.20	1.40	1.30			
Е	1.60	1.80	1.70			
He	2.30	2.70	2.50			
L	0.20	0.40	0.30			
а	00	8°				
All Dimensions in mm						

Suggested Pad Layout

Please see http://www.diodes.com/package-outlines.html for the latest version.

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Dimensions	Value (in mm)		
Х	0.590		
X1	2.700		
Υ	0.450		



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