

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

Characteristic		Symbol	Value	Unit	
Non-Repetitive Peak Reverse Voltage (Note 6)		V_{RM}	100	V	
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage		V _{RRM} V _{RWM} V _R	75	٧	
RMS Reverse Voltage		V _{R(RMS)}	53	V	
Forward Continuous Current		I _{FM}	300	mA	
Average Rectified Output Current		lo	150	mA	
Non-Repetitive Peak Forward Surge Current	@ t = 1.0μs @ t = 1.0s	I _{FSM}	2.0 1.0	А	

Thermal Characteristics

Characteristic	Symbol	Value	Unit
Power Dissipation (Note 7)	P_{D}	200	mW
Thermal Resistance Junction to Ambient Air (Note 7)	$R_{ heta JA}$	625	°C/W
Operating and Storage Temperature Range	T_J,T_STG	-65 to +150	°C

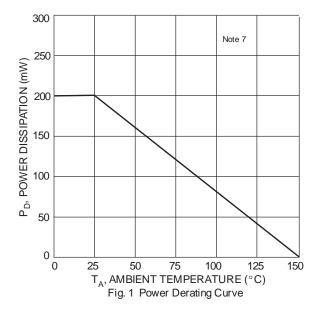
Electrical Characteristics (@T_A = +25°C, unless otherwise specified.)

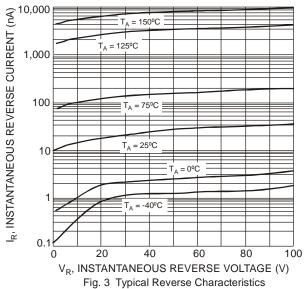
Characteristic	Symbol	Min	Max	Unit	Test Condition
Reverse Breakdown Voltage (Note 6)	$V_{(BR)R}$	75		V	$I_R = 1.0 \mu A$
Forward Voltage	V_{FM}	_	0.715 0.855 1.0 1.25	V	I _F = 1.0mA I _F = 10mA I _F = 50mA I _F = 150mA
Peak Reverse Current (Note 6)	I _{RM}	_	1.0 50 30 25	μΑ μΑ μΑ nA	$V_R = 75V$ $V_R = 75V$, $T_J = +150$ °C $V_R = 25V$, $T_J = +150$ °C $V_R = 20V$
Total Capacitance	Ст	_	2.0	pF	V _R = 0, f = 1.0MHz
Reverse Recovery Time	t _{RR}	_	4.0	ns	$I_F = I_R = 10 \text{mA},$ $I_{RR} = 0.1 \text{ x } I_R, R_L = 100 \Omega$

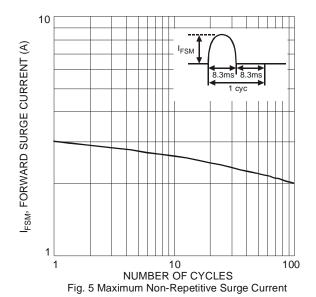
Notes:

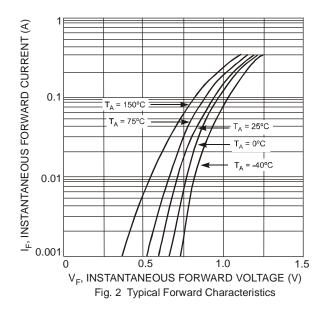
- 6. Short duration pulse test used to minimize self-heating effect.7. Part mounted on FR-4 PC board with recommended pad layout, which can be found on our website http://www.diodes.com/package-outlines.html.

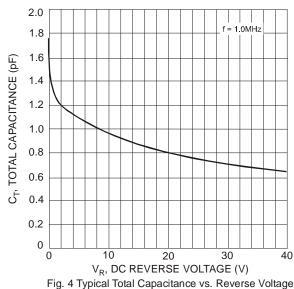












LESW FOR WARD SURGE CURRENT (A)

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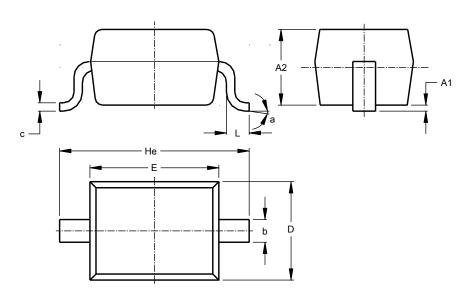
PULSE WIDTH (ms)



Package Outline Dimensions

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

SOD323

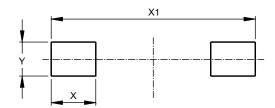


SOD323				
Dim	Min	Max	Тур	
A1	_	0.10	0.05	
A2	1.00	1.10	1.05	
b	0.25	0.35	0.30	
С	0.10	0.15	0.11	
D	1.20	1.40	1.30	
Е	1.60	1.80	1.70	
He	2.30	2.70	2.50	
L	0.20	0.40	0.30	
а	0°	8°	_	
All Dimensions in mm				

Suggested Pad Layout

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

SOD323



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



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