

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	V
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	IFSM	2.0 1.0	A

Thermal Characteristics

Characteristic	Symbol	Value	Unit
Power Dissipation (Note 7)	PD	200	mW
Thermal Resistance Junction to Ambient Air (Note 7)	R _{0JA}	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.)

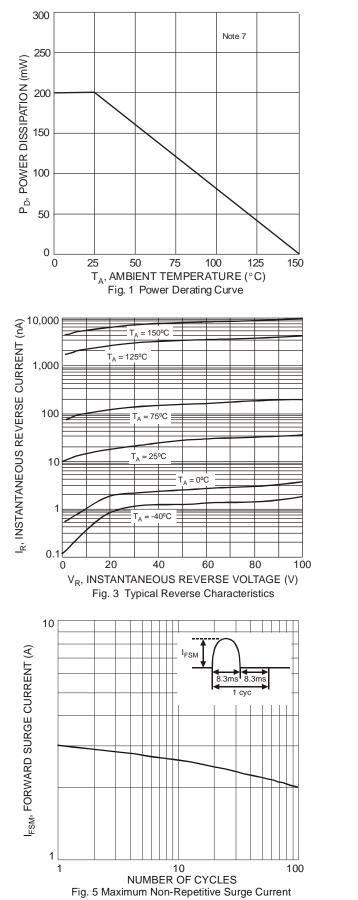
Characteristic	Symbol	Min	Max	Unit	Test Condition
Reverse Breakdown Voltage (Note 6)	V _{(BR)R}	75		V	I _R = 1.0μA
Forward Voltage	V _{FM}	_	0.715 0.855 1.0 1.25	V	$I_{F} = 1.0mA$ $I_{F} = 10mA$ $I_{F} = 50mA$ $I_{F} = 150mA$
Peak Reverse Current (Note 6)	Irm	_	1.0 50 30 25	•	$V_R = 75V$ $V_R = 75V$,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

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.

Notes:

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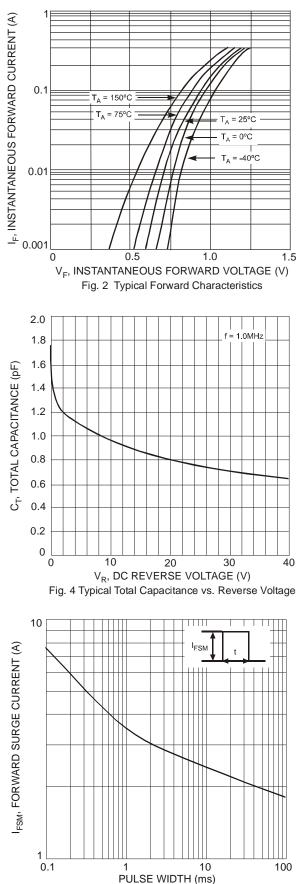


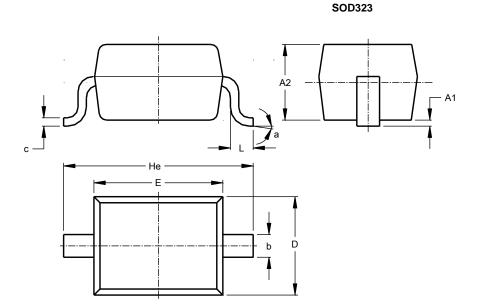
Fig. 6 Maximum Non-Repetitive Surge Current

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Package Outline Dimensions

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

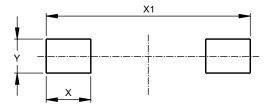


SOD323				
Dim	Min	Max	Тур	
A1	1	0.10	0.05	
A2	1.00	1.10	1.05	
b	0.25	0.35	0.30	
С	0.10	0.15	0.11	
D	1.20	1.40	1.30	
Е	1.60	1.80	1.70	
He	2.30	2.70	2.50	
L	0.20	0.40	0.30	
а	0°	8°	_	
All Dimensions in mm				

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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