

Thermal Characteristics

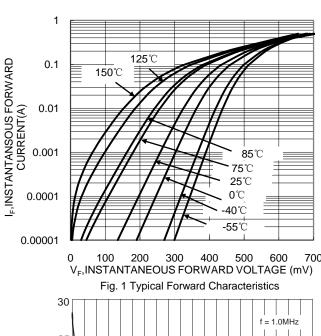
Characteristic	Symbol	Value	Unit
Power Dissipation (Note 5)	P _D	367	mW
Typical Thermal Resistance Junction to Ambient (Note 5)	$R_{\theta JA}$	340	°C/W
Operating and Storage Temperature Range	T _J , T _{STG}	-55 to +150	°C

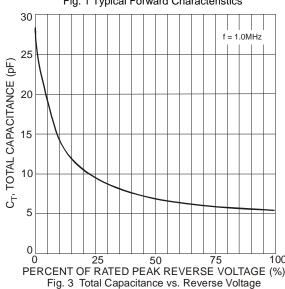
Electrical Characteristics (@T_A = +25°C, unless otherwise specified.)

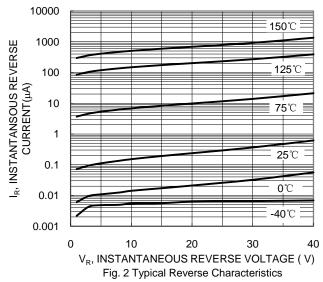
Characteristic		Symbol	Min	Тур	Max	Unit	Test Condition
Reverse Breakdown Voltage (Note 6)	SD103AW SD103BW SD103CW	V _{(BR)R}	40 30 20	l		٧	$I_R = 100 \mu A$
Forward Voltage Drop		V _{FM}	_		0.37 0.60	V	$I_F = 20mA$ $I_F = 200mA$
Peak Reverse Current (Note 6)	SD103AW SD103BW SD103CW	I _{RM}	_	l	5.0	μΑ	$V_R = 30V$ $V_R = 20V$ $V_R = 10V$
Total Capacitance		Ст	_	28		рF	$V_R = 0V$, $f = 1.0MHz$
Reverse Recovery Time		t _{RR}	_	10	_		$I_F = I_R = 200 \text{mA},$ $I_{RR} = 0.1 \times I_R, R_L = 100 \Omega$

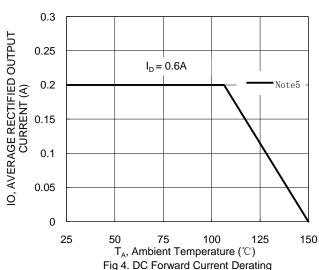
Notes: 5. Part mounted on FR-4 board with recommended pad layout, which can be found on our website at http://www.diodes.com/package-outlines.html.





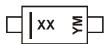




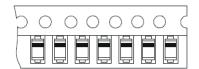




Marking Information



XX= Product Type Marking Code S4 = SD103AW S5 or S4 = SD103BW S6 or S5 or S4 = SD103CW Y = Year (ex: D = 2016) M = Month (ex: 9 = September) Bar Denotes Cathode Pin

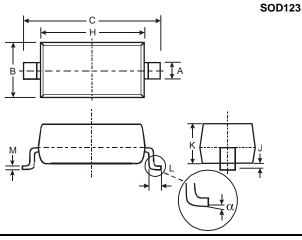


Year	2013	2014	2015	2016	2017	2018	2019	2020
Code	Α	В	С	D	E	F	G	Н

Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Code	1	2	3	4	5	6	7	8	9	0	N	D

Package Outline Dimensions

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

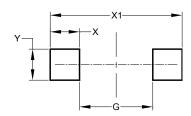


SOD123						
Dim	Min	Max				
Α	0.55 Typ					
В	1.40	1.70				
С	3.55	3.85				
Н	2.55	2.85				
J	0.00	0.10				
K	1.00	1.35				
L	0.25	0.40				
M	0.10	0.15				
α	0	8°				
All Dimensions in mm						

Suggested Pad Layout

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

SOD123



Dimensions	Value(in mm)
G	2.250
Х	0.900
X1	4.050
Υ	0.950



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