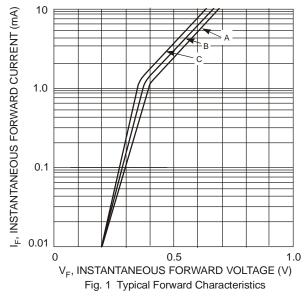
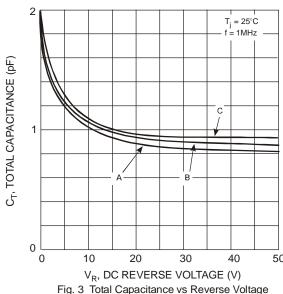


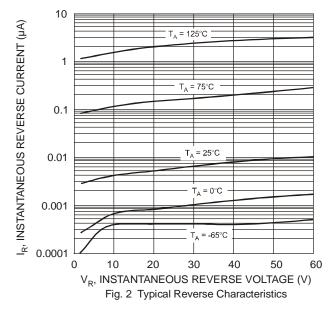
# **Electrical Characteristics** @T<sub>A</sub> = 25°C unless otherwise specified

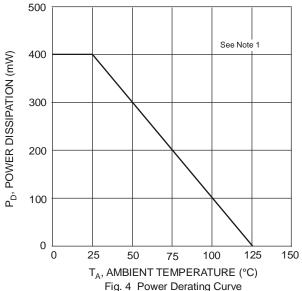
Characteristic	Symbol	Min	Max	Unit	Test Condition		
Reverse Breakdown Voltage (Note 4)	SD101AW SD101BW SD101CW	V <sub>(BR)R</sub>	60 50 40	_	V	$\begin{split} I_R &= 10 \mu A \\ I_R &= 10 \mu A \\ I_R &= 10 \mu A \end{split}$	
Forward Voltage Drop	SD101AW SD101BW SD101CW SD101AW SD101BW SD101CW	V <sub>FM</sub>	_	0.41 0.40 0.39 1.00 0.95 0.90	V	IF = 1.0mA   IF = 1.0mA   IF = 1.0mA   IF = 15mA   IF = 15mA	
Peak Reverse Current (Note 4)	SD101AW SD101BW SD101CW	I <sub>RM</sub>	_	200	nA	V <sub>R</sub> = 50V V <sub>R</sub> = 40V V <sub>R</sub> = 30V	
Total Capacitance	SD101AW SD101BW SD101CW	Ст	_	2.0 2.1 2.2	pF	V <sub>R</sub> = 0V, f = 1.0MHz	
Reverse Recovery Time		t <sub>rr</sub>	_	1.0	ns	$I_F = I_R = 5.0 \text{mA},$ $I_{rr} = 0.1 \times I_R, R_L = 100 \Omega$	

Notes: 4. Short duration pulse test used to minimize self-heating effect.









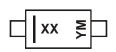


#### Ordering Information (Note 5)

Part Number	Case	Packaging
SD101xW-7-F	SOD-123	3000/Tape and Reel
SD101xW-13-F	SOD-123	10,000/Tape and Reel

Notes: 5. For packaging details, go to our website at http://www.diodes.com/datasheets/ap02007.pdf.

### **Marking Information**



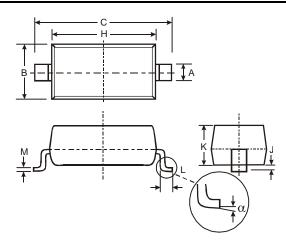
xx = Product Type Marking Code S1 or SK = SD101AW S2 or SK = SD101BW S3 or SK = SD101CW YM = Date Code Marking

Y = Year (ex: T = 2006) M = Month (ex: 9 = September)

Date Code Key

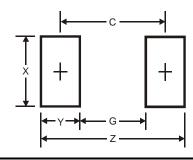
Year	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Code	J	K	L	М	N	Р	R	S	Т	U	V	W	Χ	Υ	Z	Α	В	С
Month	Ja	ın	Feb	N	lar	Apr	М	ay	Jun	Jı	ıl	Aug	Sep	o	Oct	Nov	/	Dec
Code	1		2		3	4	;	5	6	7	,	8	9		0	N		D

## **Package Outline Dimensions**



SOD-123						
Dim	Min	Max				
Α	0.55 Typ					
В	1.40	1.70				
C	3.55	3.85				
H	2.55	2.85				
7	0.00	0.10				
K	1.00	1.35				
L	0.25	0.40				
М	0.10	0.15				
α	0	8°				
All Dimensions in mm						

# **Suggested Pad Layout**



Dimensions	Value (in mm)
Z	4.9
G	2.5
Х	0.7
Υ	1.2
С	3.7

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