

Electrical Characteristics @T_A = 25°C unless otherwise specified

Characteristic		Symbol	Min	Max	Unit	Test Condition
Reverse Breakdown Voltage (Note 4)	SD101AW SD101BW SD101CW	V _{(BR)R}	60 50 40	—	V	I _R = 10μA I _R = 10μA I _R = 10μA
Forward Voltage Drop	SD101AW SD101BW SD101CW SD101AW SD101BW SD101CW	V _{FM}	—	0.41 0.40 0.39 1.00 0.95 0.90	V	I _F = 1.0mA I _F = 1.0mA I _F = 1.0mA I _F = 15mA I _F = 15mA I _F = 15mA
Peak Reverse Current (Note 4)	SD101AW SD101BW SD101CW	I _{RM}	—	200	nA	V _R = 50V V _R = 40V V _R = 30V
Total Capacitance	SD101AW SD101BW SD101CW	C _T	—	2.0 2.1 2.2	pF	V _R = 0V, f = 1.0MHz
Reverse Recovery Time		t _{rr}	—	1.0	ns	I _F = I _R = 5.0mA, I _{tr} = 0.1 x I _R , R _L = 100Ω

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

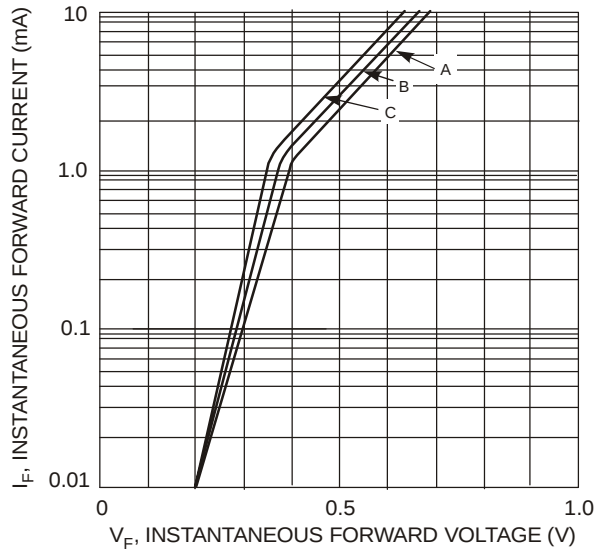


Fig. 1 Typical Forward Characteristics

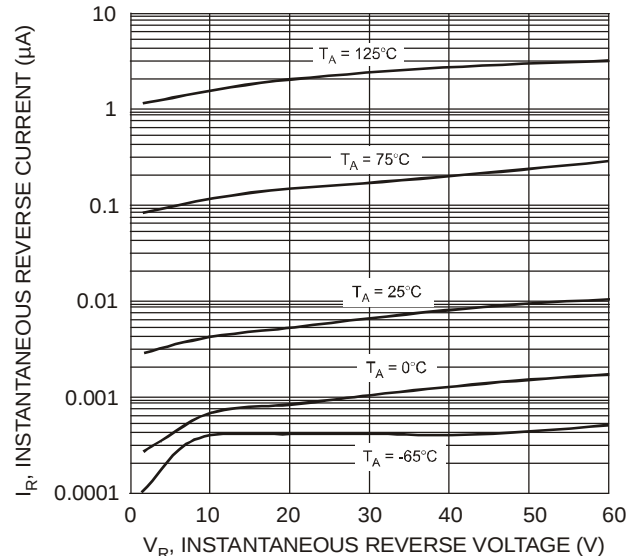


Fig. 2 Typical Reverse Characteristics

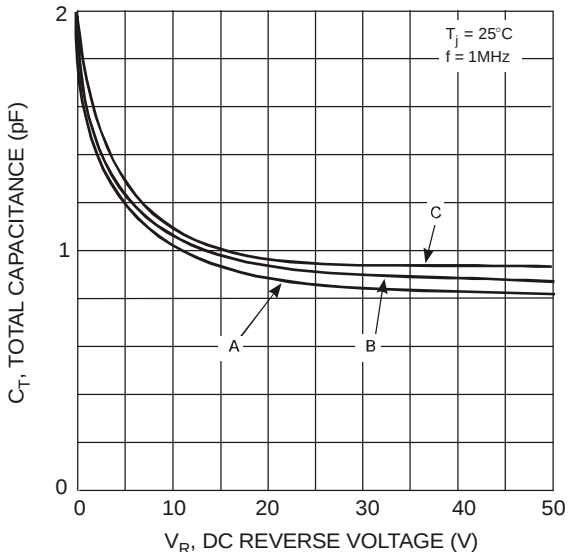


Fig. 3 Total Capacitance vs. Reverse Voltage

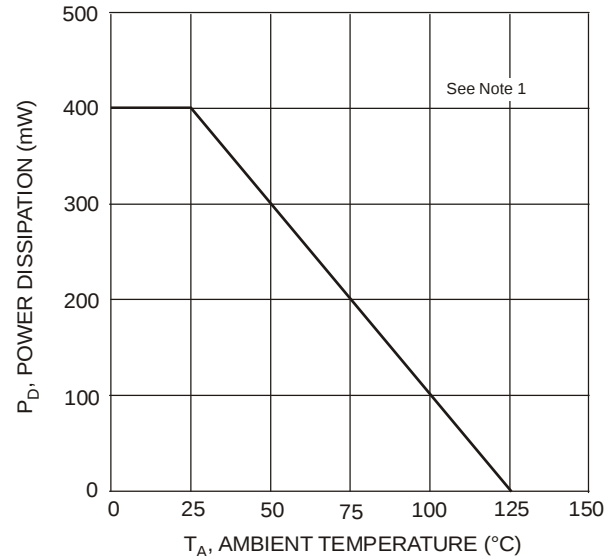


Fig. 4 Power Derating Curve

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)

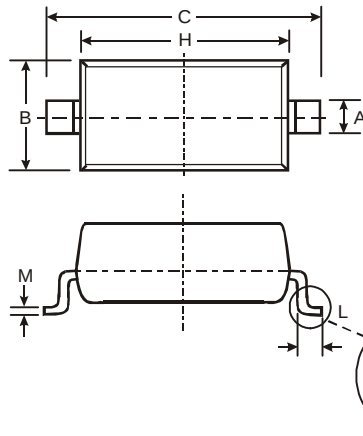
M = Month (ex: 9 = September)

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	M	N	P	R	S	T	U	V	W	X	Y	Z	A	B	C

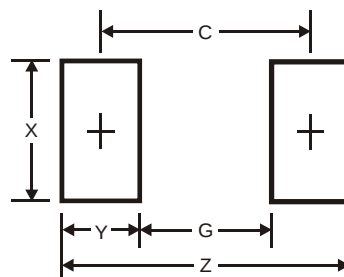
Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Code	1	2	3	4	5	6	7	8	9	O	N	D

Package Outline Dimensions



SOD-123		
Dim	Min	Max
A	0.55	Typ
B	1.40	1.70
C	3.55	3.85
H	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



Dimensions	Value (in mm)
Z	4.9
G	2.5
X	0.7
Y	1.2
C	3.7

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