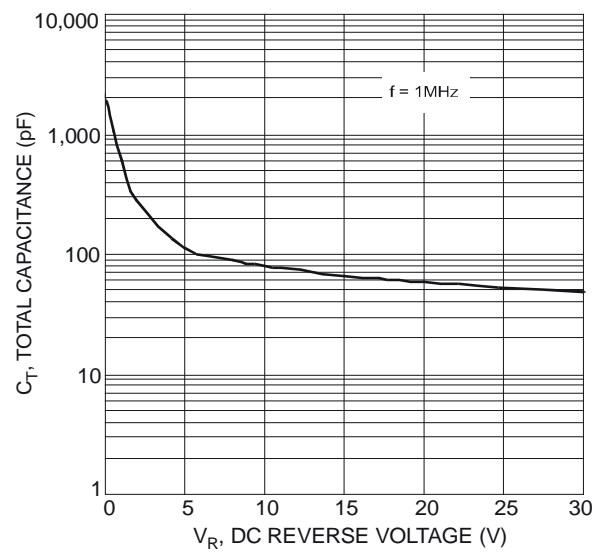
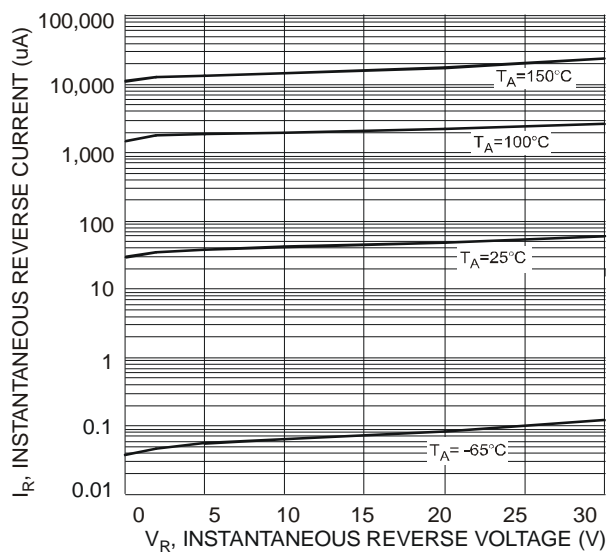
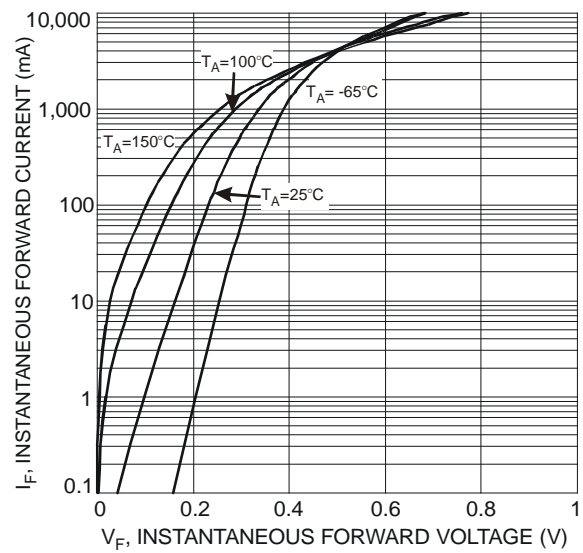
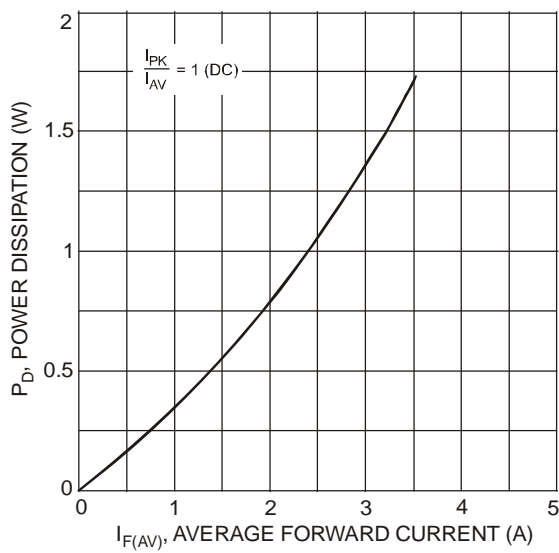


Electrical Characteristics @T_A = 25°C unless otherwise specified

Characteristic	Symbol	Min	Typ	Max	Unit	Test Condition
Reverse Breakdown Voltage (Note 5)	V _{(BR)R}	30	-	-	V	I _R = 250μA
Forward Voltage Drop	V _F	-	0.23	0.28	V	I _F = 0.1A, T _J = 25°C
		-	0.34	0.39		I _F = 1.0A, T _J = 25°C
		-	0.40	0.45		I _F = 2.0A, T _J = 25°C
		-	0.50	-		I _F = 4.0A, T _J = 125°C
		-	0.13	0.19		I _F = 0.1A, T _J = 125°C
		-	0.275	0.33		I _F = 1.0A, T _J = 125°C
Leakage Current (Note 5)	I _R	-	50	100	μA	V _R = 5V, T _J = 25°C
			55	200	μA	V _R = 30V, T _J = 25°C
			5	10	mA	V _R = 5V, T _J = 125°C
			7	15	mA	V _R = 30V, T _J = 125°C

Notes: 5. Short duration pulse test used to minimize self-heating effect.



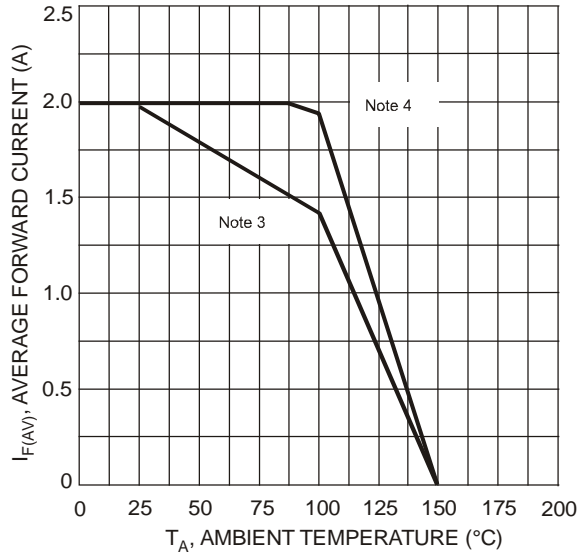


Fig. 5 Forward Current Derating Curve

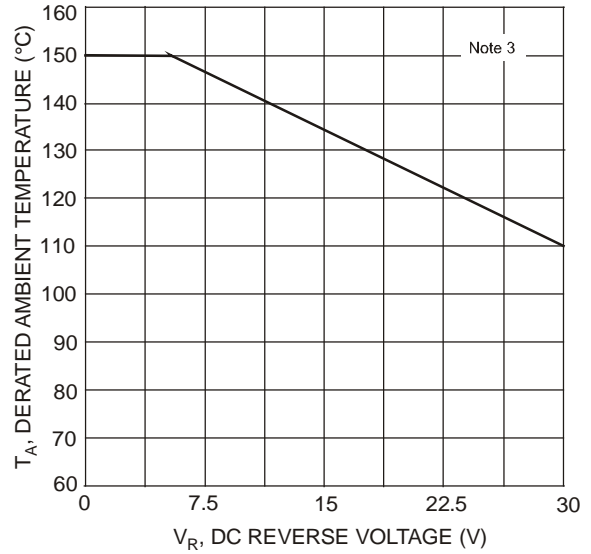


Fig. 6 Operating Temperature Derating

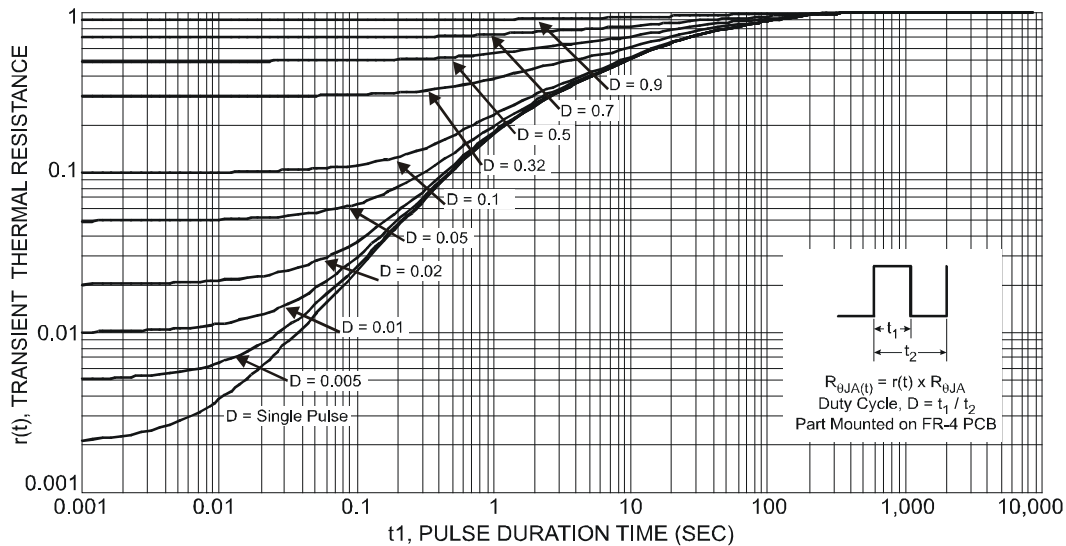


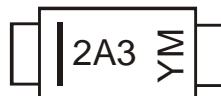
Fig. 7 Transient Thermal Resistance

Ordering Information (Note 6)

Part Number	Case	Packaging
SBR2A30P1-7	PowerDI [®] 123	3000/Tape & Reel

Notes: 6. For packaging details, go to our website at <http://www.diodes.com/datasheets/ap02007.pdf>.

Marking Information



2A3 = Product Type Marking Code
YM = Date Code Marking
Y = Year (ex: T = 2006)
M = Month (ex: 9 = September)

Date Code Key

Year	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Code	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

SBR and PowerDI are registered trademarks of Diodes Incorporated.

SBR2A30P1

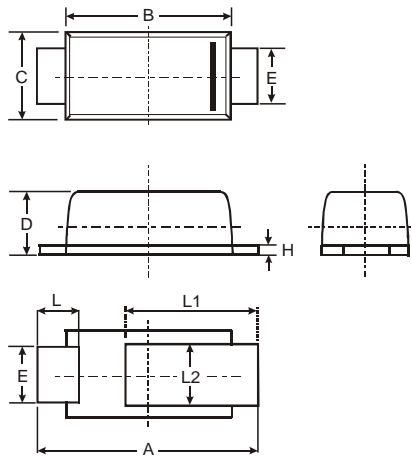
Document number: DS30920 Rev. 11 - 2

3 of 4

www.diodes.com

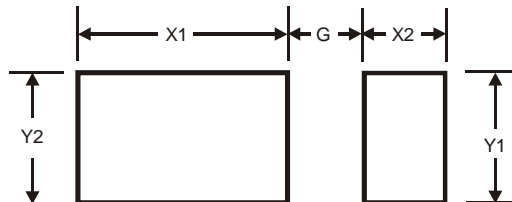
October 2008
© Diodes Incorporated

Package Outline Dimensions



PowerDI [®] 123			
Dim	Min	Max	Typ
A	3.50	3.90	3.70
B	2.60	3.00	2.80
C	1.63	1.93	1.78
D	0.93	1.00	0.98
E	0.85	1.25	1.00
H	0.15	0.25	0.20
L	0.55	0.75	0.65
L1	1.80	2.20	2.00
L2	0.95	1.25	1.10
All Dimensions in mm			

Suggested Pad Layout



Dimensions	Value (in mm)
G	1.0
X1	2.2
X2	0.9
Y1	1.4
Y2	1.4

IMPORTANT NOTICE

Diodes Incorporated and its subsidiaries reserve the right to make modifications, enhancements, improvements, corrections or other changes without further notice to any product herein. Diodes Incorporated does not assume any liability arising out of the application or use of any product described herein; neither does it convey any license under its patent rights, nor the rights of others. The user of products in such applications shall assume all risks of such use and will agree to hold Diodes Incorporated and all the companies whose products are represented on our website, harmless against all damages.

LIFE SUPPORT

Diodes Incorporated products are not authorized for use as critical components in life support devices or systems without the expressed written approval of the President of Diodes Incorporated.