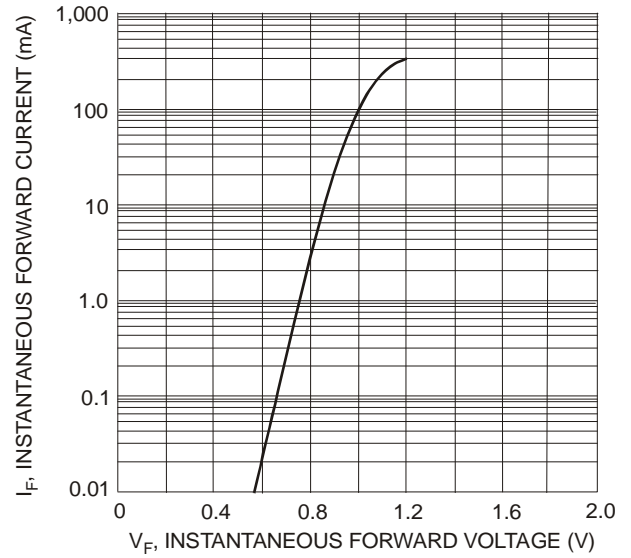Fig. 1 Power Derating Curve

Fig. 2 Typical Forward Characteristics
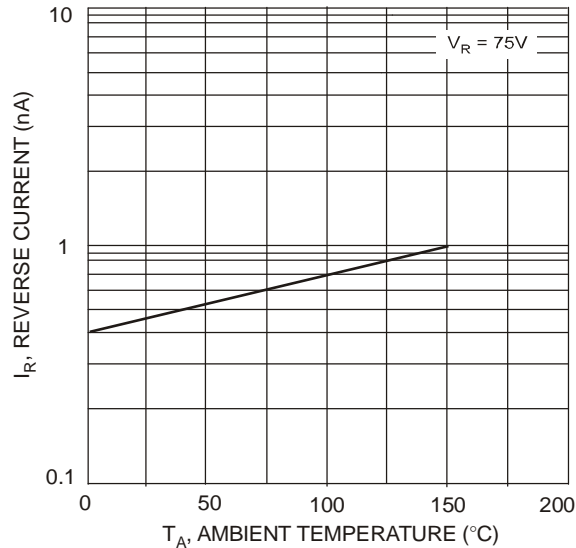

Fig. 3 Typical Reverse Characteristics
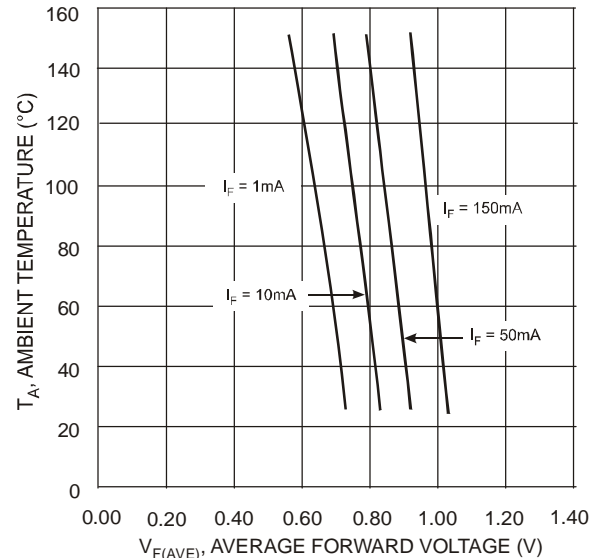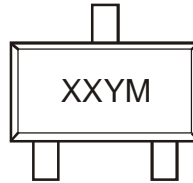

Fig. 4 Typical Forward Voltage vs. Ambient Temperature

Ordering Information (Note 6)

Part Number	Case	Packaging
BAS116T-7-F	SOT-523	3000/Tape & Reel
BAW156T-7-F	SOT-523	3000/Tape & Reel
BAV170T-7-F	SOT-523	3000/Tape & Reel
BAV199T-7-F	SOT-523	3000/Tape & Reel

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

BAS116T, BAW156T,
BAV170T, BAV199T
Document number: DS30258 Rev. 12 - 2

2 of 3
www.diodes.com

March 2009
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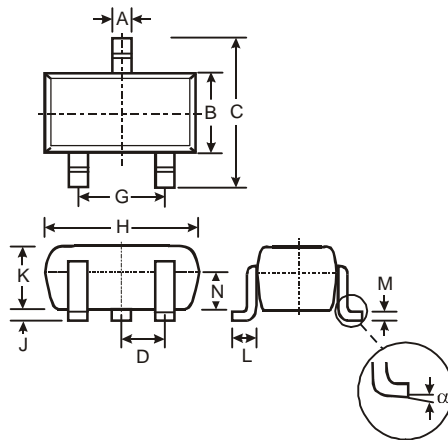
Marking Information

XX = Product Type Marking Code (See Page 1, e.g. 50 = BAS116T)
YM = Date Code Marking
Y = Year (ex: N = 2002)
M = Month (ex: 9 = September)

XXYM

Date Code Key

Year	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Code	M	N	P	R	S	T	U	V	W	X	Y	Z

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

SOT-523			
Dim	Min	Max	Typ
A	0.15	0.30	0.22
B	0.75	0.85	0.80
C	1.45	1.75	1.60
D	—	—	0.50
G	0.90	1.10	1.00
H	1.50	1.70	1.60
J	0.00	0.10	0.05
K	0.60	0.80	0.75
L	0.10	0.30	0.22
M	0.10	0.20	0.12
N	0.45	0.65	0.50
α	0°	8°	—
All Dimensions in mm			

Suggested Pad Layout
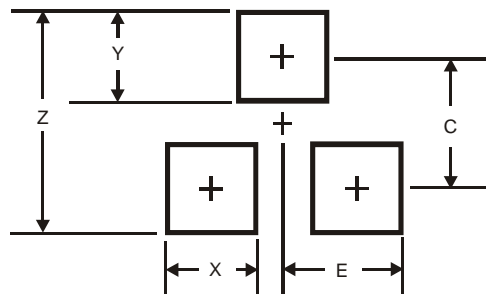
Dimensions	Value (in mm)
Z	1.8
X	0.4
Y	0.51
C	1.3
E	0.7

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BAS116T, BAW156T,
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Document number: DS30258 Rev. 12 - 2

3 of 3
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