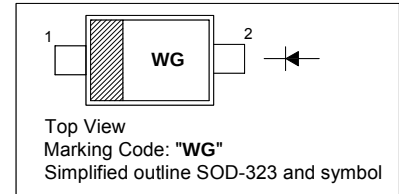


BAS216WS

High Speed Switching Diode

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode

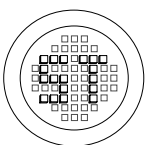


Absolute Maximum Ratings ($T_a = 25\text{ }^{\circ}\text{C}$)

Parameter	Symbol	Value	Unit
Repetitive Peak Reverse Voltage	V_{RRM}	85	V
Reverse Voltage	V_R	75	V
Continuous Forward Current	I_F	250	mA
Repetitive Peak Forward Current	I_{FRM}	500	mA
Non-Repetitive Peak Forward Current $t = 1\text{ }\mu\text{s}$ $t = 1\text{ ms}$ $t = 1\text{ s}$	I_{FSM}	4 1 0.5	A
Power Dissipation	P_{tot}	400	mW
Junction Temperature	T_J	150	$^{\circ}\text{C}$
Storage Temperature Range	T_s	- 65 to + 150	$^{\circ}\text{C}$

Characteristics at $T_a = 25\text{ }^{\circ}\text{C}$

Parameter	Symbol	Max.	Unit
Forward Voltage at $I_F = 1\text{ mA}$ at $I_F = 10\text{ mA}$ at $I_F = 50\text{ mA}$ at $I_F = 150\text{ mA}$	V_F	0.715 0.855 1 1.25	V
Reverse Current at $V_R = 25\text{ V}$ at $V_R = 75\text{ V}$ at $V_R = 25\text{ V}$, $T_J = 150\text{ }^{\circ}\text{C}$ at $V_R = 75\text{ V}$, $T_J = 150\text{ }^{\circ}\text{C}$	I_R	30 1 30 50	nA μA μA μA
Diode Capacitance at $V_R = 0\text{ V}$, $f = 1\text{ MHz}$	C_{tot}	1.5	pF
Forward Recovery Voltage at $I_F = 10\text{ mA}$, $t_r = 20\text{ ns}$	V_{fr}	1.75	V
Reverse Recovery Time at $I_F = 10\text{ mA}$ to $I_R = 10\text{ mA}$, $I_R = 1\text{ mA}$, $R_L = 100\text{ }\Omega$	t_{rr}	4	ns

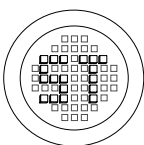
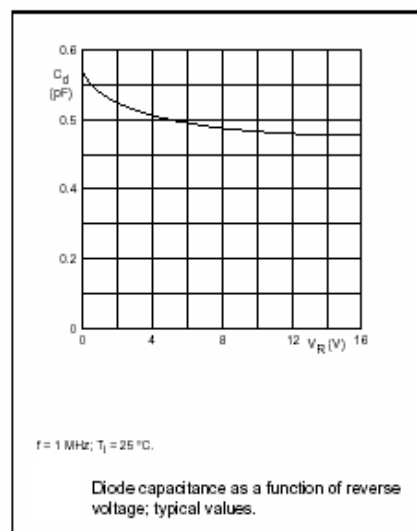
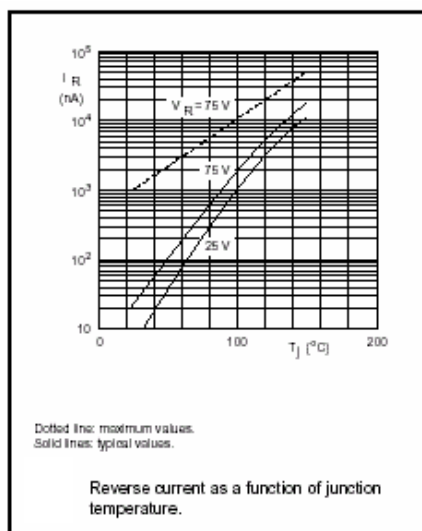
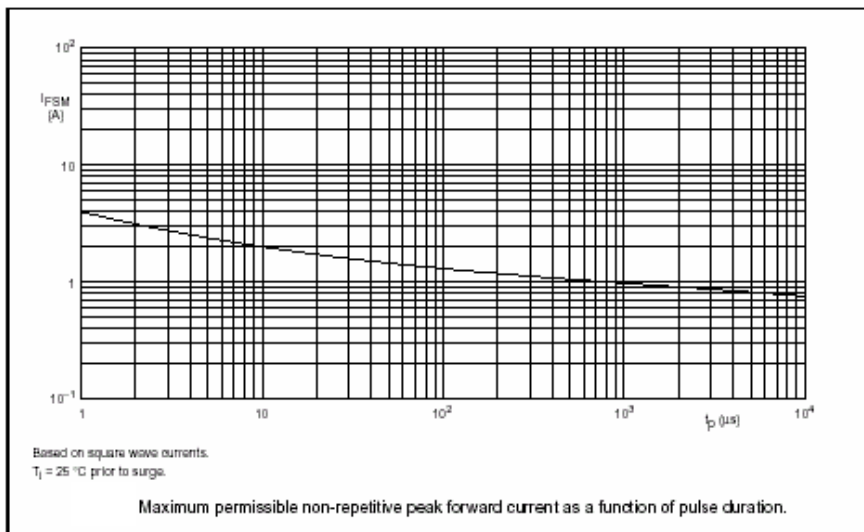
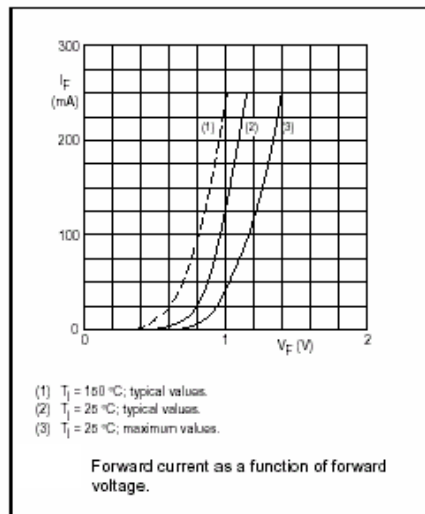
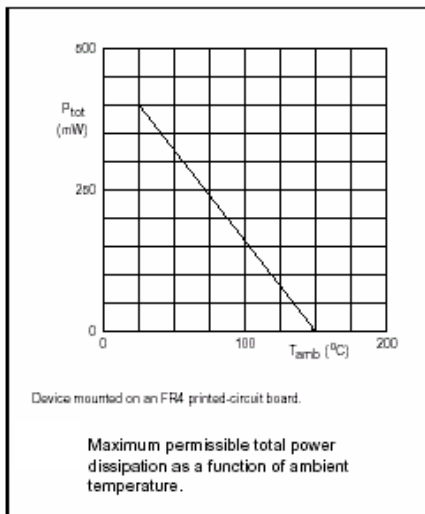


SEMTECH ELECTRONICS LTD.

(Subsidiary of Semtech International Holdings Limited, a company
listed on the Hong Kong Stock Exchange, Stock Code: 724)



Dated : 01/09/2006



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ISO/TS 16949 : 2002
 Certificate No. 05103



ISO 14001:2004
 Certificate No. 7116



ISO 9001:2000
 Certificate No. 0506086

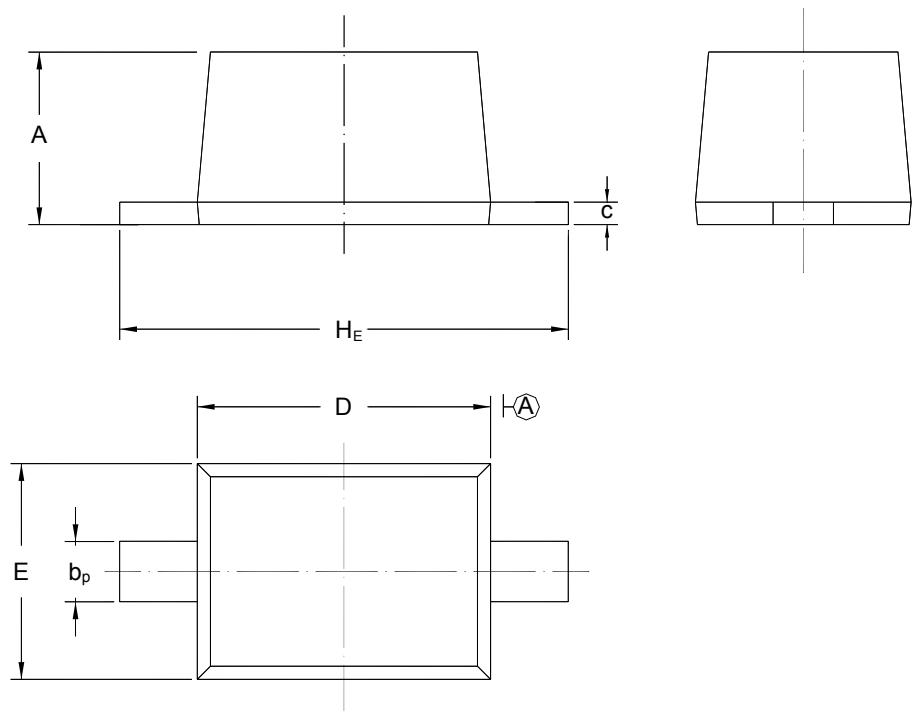
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BAS216WS

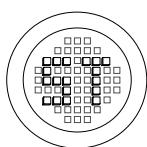
PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SOD-323



UNIT	A	b _p	C	D	E	H _E
mm	1.10 0.80	0.40 0.25	0.15 0.00	1.80 1.60	1.35 1.15	2.80 2.30



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