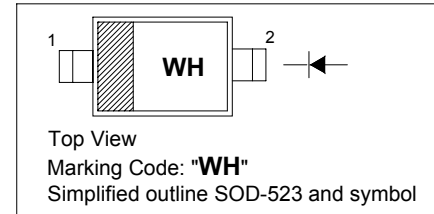


BAS216WT

High-speed switching diode

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



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

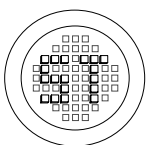
Parameter	Symbol	Value	Unit
Continuous Reverse Voltage	V_R	75	V
Repetitive Peak Reverse Voltage	V_{RRM}	85	V
Continuous Forward Current	I_F	250	mA
Repetitive Peak Forward Current	I_{FRM}	500	mA
Non-Repetitive Peak Forward Current	I_{FSM}	4	A
$t = 1\ \mu\text{s}$		1	
$t = 1\ \text{ms}$		0.5	
$t = 1\ \text{s}$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

Maximum Thermal Resistance ($T_j = 25^\circ\text{C}$)

Parameter	Symbol	Value	Unit
Thermal Resistance from Junction to tie-point	$R_{th\ j\text{-}tp}$	200	K/W
Thermal Resistance from Junction to Ambient	$R_{th\ j\text{-}a}$	315	K/W

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

Parameter	Symbol	Min.	Max.	Unit
Forward Voltage	V_F	-		mV
at $I_F = 1\ \text{mA}$			715	
at $I_F = 10\ \text{mA}$			855	
at $I_F = 50\ \text{mA}$			1000	
at $I_F = 150\ \text{mA}$			1250	
Reverse Current	I_R	-		nA μA μA μA
at $V_R = 25\ \text{V}$			30	
at $V_R = 75\ \text{V}$			1	
at $V_R = 25\ \text{V}, T_J = 150^\circ\text{C}$			30	
at $V_R = 75\ \text{V}, T_J = 150^\circ\text{C}$			50	
Diode Capacitance	C_{tot}	-		pF
at $V_R = 0\ \text{V}, f = 1\ \text{MHz}$			1.5	
Forward Recovery Voltage	V_{fr}	-	1.75	V
at $I_F = 10\ \text{mA}, t_r = 20\ \text{ns}$				
Reverse Recovery Time	t_{rr}	-		ns
at $I_F = 10\ \text{mA}$ to $I_R = 10\ \text{mA}, I_R = 1\ \text{mA}, R_L = 100\ \Omega$			4	



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Certificate No. 05103

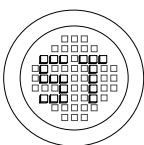
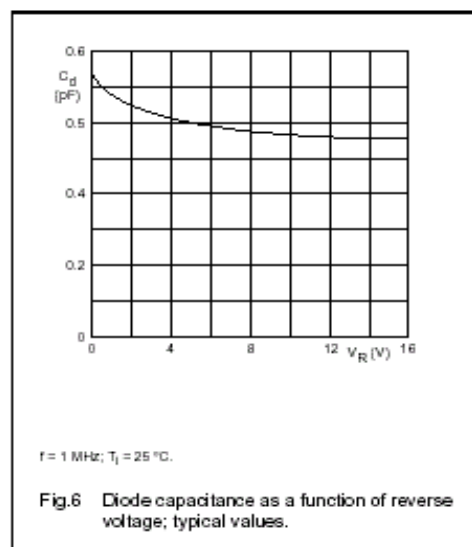
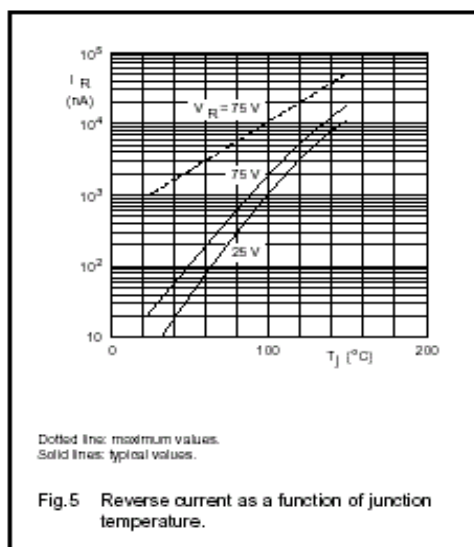
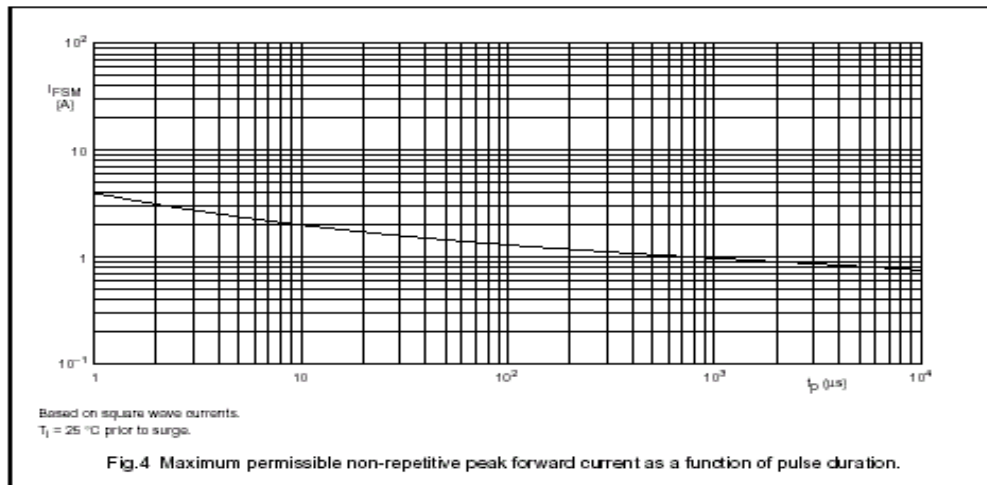
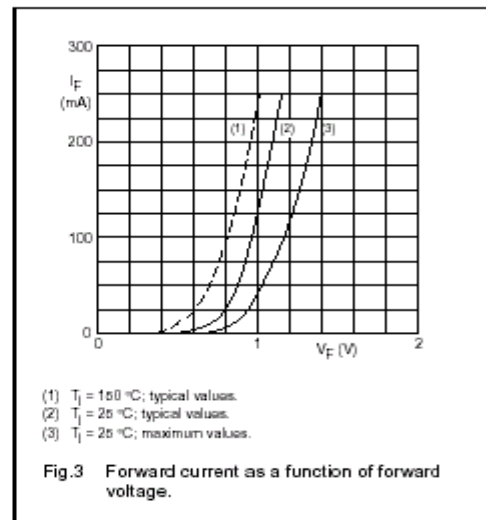
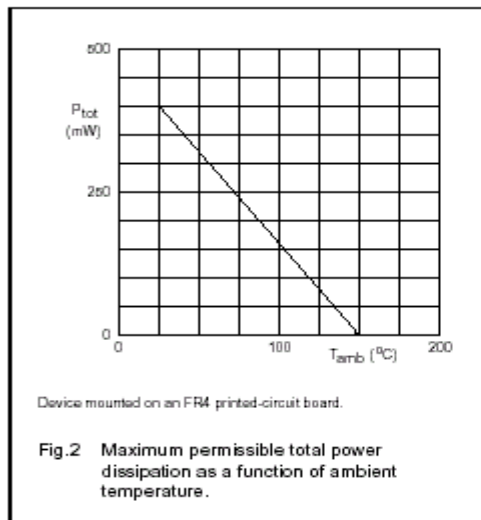


ISO 14001:2004
Certificate No. 7116



ISO 9001:2000
Certificate No. 0506098

Dated : 03/05/2006



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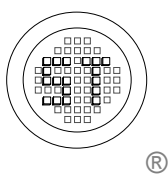
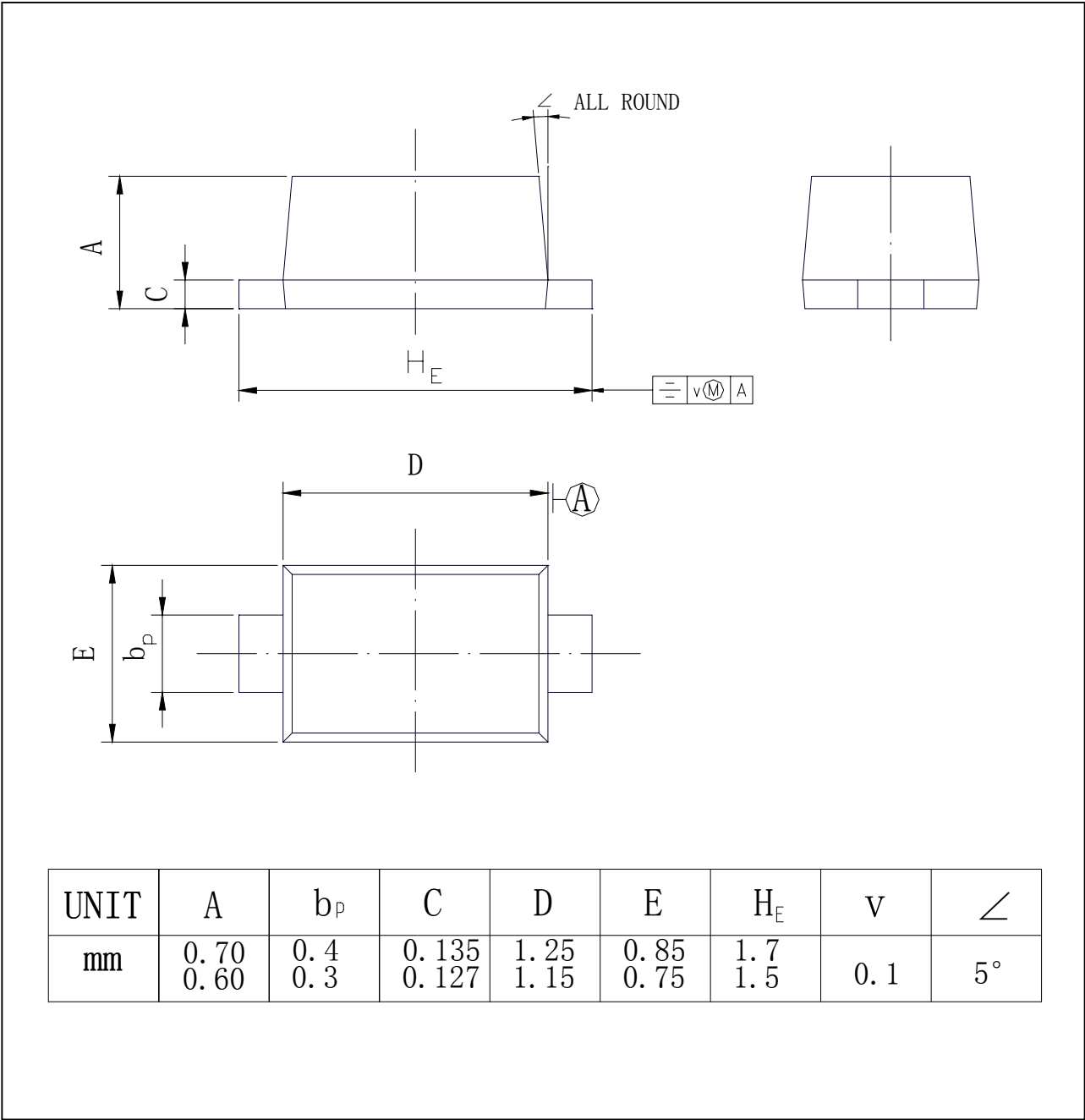
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BAS216WT

PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SOD-523



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Dated : 03/05/2006