DESCRIPTION

The BAS20H is available in SOD-323 Package.

FEATURES

- For the application of requiring Unique Site and Control Change Requirements

ORDERING INFORMATION

Package Type	Part Number
SOD-323	BAS20H
Note	3,000pcs/Reel
AiT provides all RoHS Compliant Products	

PIN DESCRIPTION

ABSOLUTE MAXIMUM RATINGS

T_A = 25°C

V_R, Continuous Reverse Voltage		200V
I_F, Peak Forward Current		200mA
I_{FM}, Peak Forward Surge Current		625mA
P_D, Power Dissipation (FR-5) Board	T_A = 25°C	200mW
	Derate above 25°C	1.57mW/°C
$R_{\theta JA}$, Thermal Resistance Junction to Ambient		635°C/W
T_J, Junction Temperature		150°C
T_{STG}, Storage Temperature Range		-55°C ~+150°C

Stresses exceeding those listed in the Maximum Ratings table may damage the device. If any of these limits are exceeded, device functionality should not be assumed, damage may occur and reliability may be affected.

*FR–5 Minimum Pad

ELECTRICAL CHARACTERISTICS

T_A = 25°C, unless otherwise noted

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
Reverse Breakdown Voltage	$V_{(BR)}$	I_{BR} = 100μA	200	-	-	V
Reverse Current	I_R	V_R = 200V	-	-	1	μA
		V_R = 200V, T_J = 150°C	-	-	100	
Forward voltage	V_F	I_F =100mA	-	-	1	V
		I_F =200mA	-	-	1.25	
Diode Capacitance	C_D	V_R = 0, f = 1MHz	-	-	5	pF
Reverse Recovery Time	t_{rr}	IF=I_R=30mA, R_L=100Ω	-	-	50	ns

TYPICAL CHARACTERISTICS

Fig.1 IF vs VF

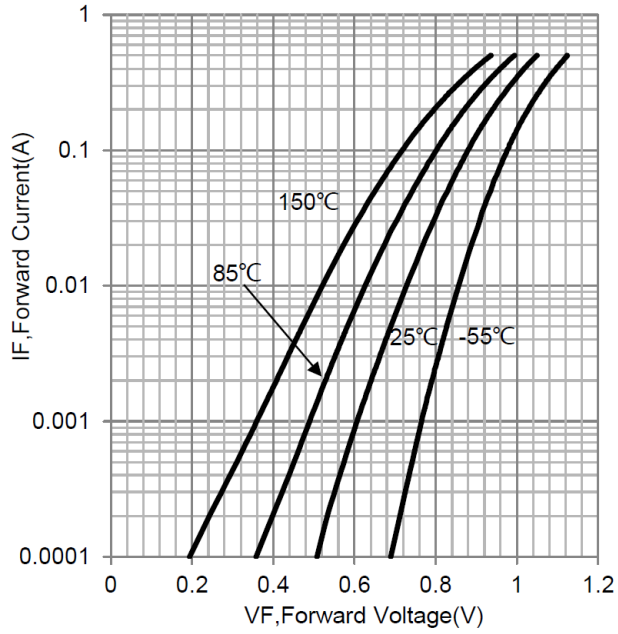


Fig.2 IR vs VR

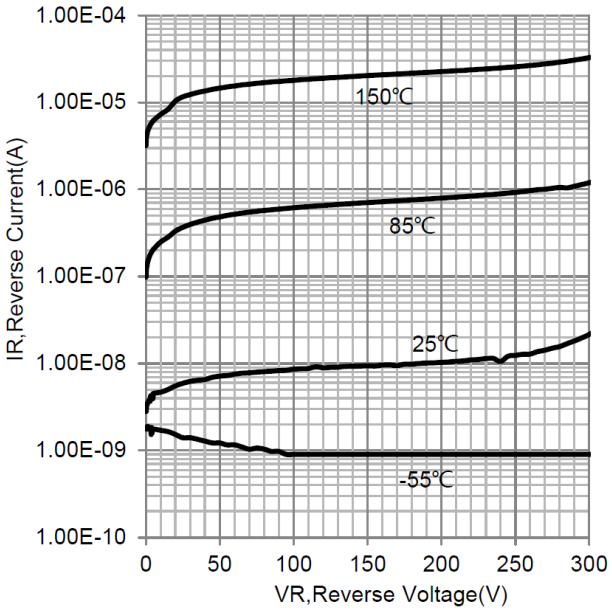
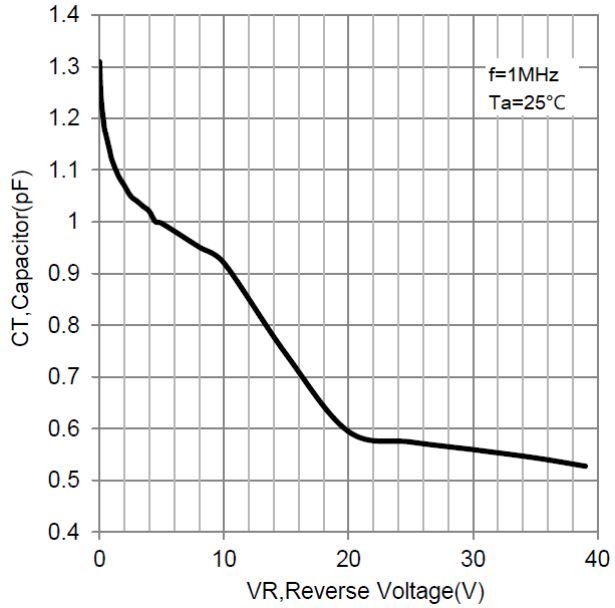
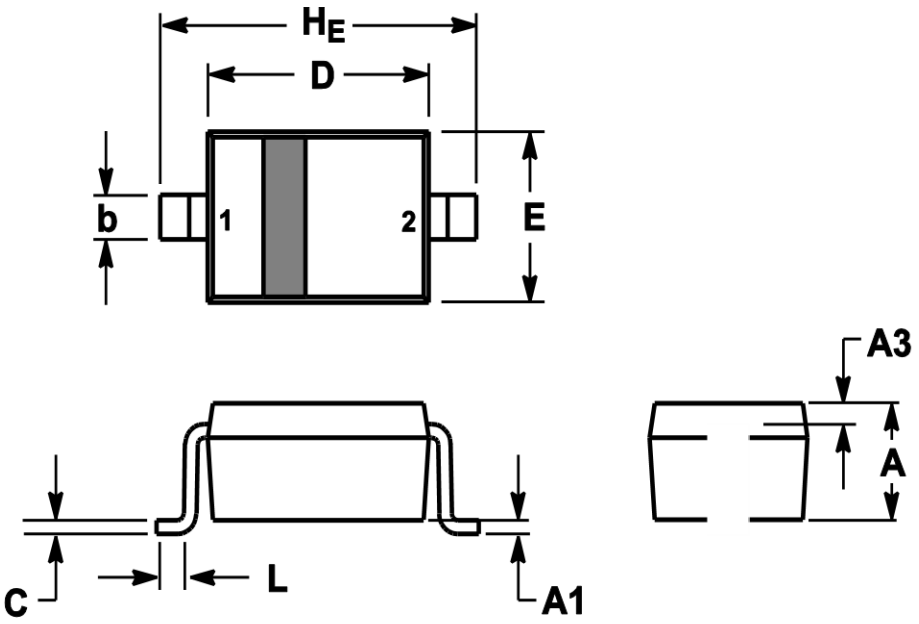


Fig.3 CT vs VR



PACKAGE INFORMATION

Dimension in SOD-323 Package (Unit: mm)



UNIT	SOD-323	
	MIN	MAX
A	0.800	1.000
A1	0.000	0.100
A3	0.150 REF	
b	0.250	0.400
C	0.089	0.177
D	1.600	1.800
E	1.150	1.350
L	0.080	-
H_E	2.300	2.700

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