SOD-323 Plastic-Encapsulate Diodes

BAV19WS/BAV20WS/BAV21WS   FAST SWITCHING DIODE

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode

Top View
Simplified outline SOD-323 and symbol

FEATURES
- Fast Switching Speed
- Surface Mount Package Ideally Suited for Automatic Insertion
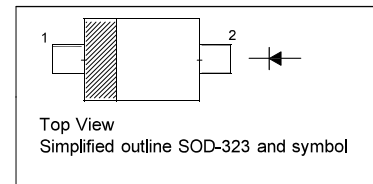- For General Purpose Switching Applications

MARKING: BAV19WS: A8
BAV20WS: T2
BAV21WS: T3

Maximum Ratings and Electrical Characteristics, Single Diode @Ta=25℃

Parameter	Symbol	BAV19WS	BAV20WS	BAV21WS	Unit
Non-Repetitive Peak Reverse Voltage	V_{RM}	120	200	250	V
Peak Repetitive Peak Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V_{RRM} V_{RWM} V_R	100	150	200	V
RMS Reverse Voltage	$V_{R(RMS)}$	71	106	141	V
Forward Continuous Current	I_{FM}	400			mA
Average Rectified Output Current	I_O	200			mA
Peak Forward Surge Current @t=1.0ms @ t=1.0s	I_{FSM}	2.5 0.5			A
Repetitive Peak Forward Current	I_{FRM}	625			mA
Power Dissipation	Pd	200			mW
Thermal Resistance Junction to Ambient	$R_{\theta JA}$	625			℃/W
Storage Temperature	T_{STG}	-55~+150			℃

Electrical Ratings @Ta=25℃

Parameter	Symbol	Min	Typ	Max	Unit	Conditions
Forward voltage	V_{F1}			1.0	V	I_F=0.1A
	V_{F2}			1.25		I_F=0.2A
Reverse current	I_R			0.1	μA	V_R=100V
				0.1		V_R=150V
				0.1		V_R=200V
Capacitance between terminals	C_T			5	pF	V_R=0V,f=1MHz
Reverse recovery time	t_{rr}			50	ns	I_F=I_R=30mA Irr=0.1XI_R,R_L=100Ω

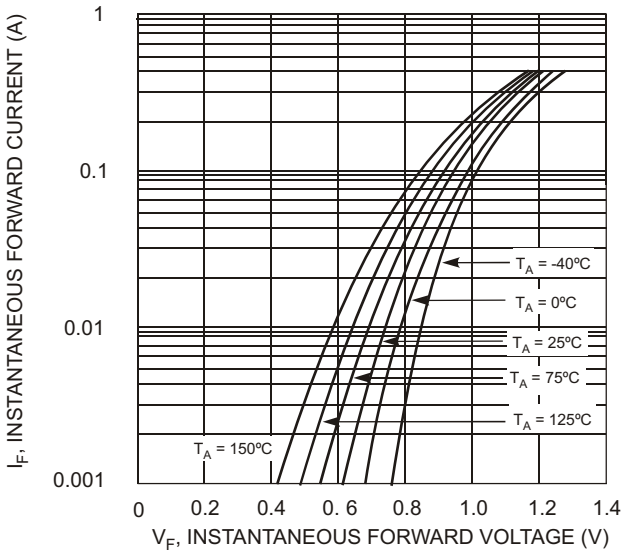## Typical Characteristics

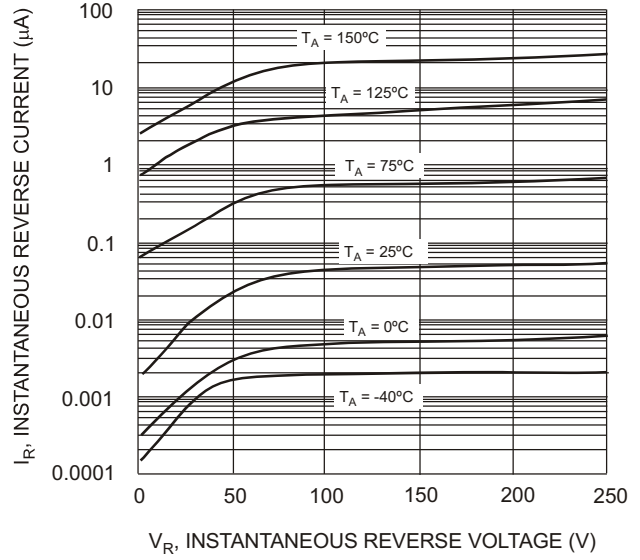Fig. 1 Typical Forward Characteristics
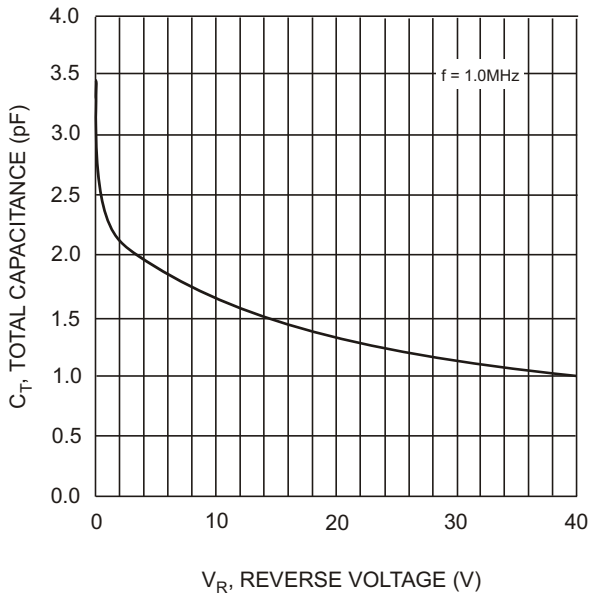

Fig. 2 Typical Reverse Characteristics
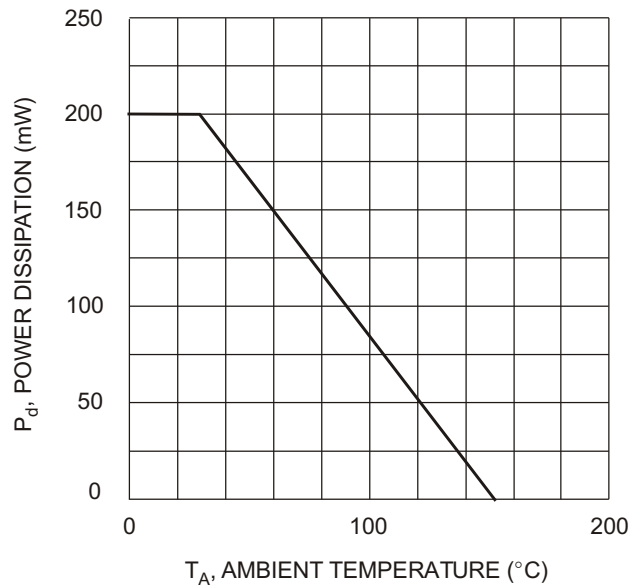

Fig. 3 Typical Capacitance vs. Reverse Voltage

Fig. 4 Power Derating Curve, Total Package

PACKAGE OUTLINE

Plastic surface mounted package; 2 leads   **SOD-323**

UNIT	A	bp	C	D	E	HE	A1	Lp
mm	1.20	0.40	0.15	1.80	1.35	2.80	0.10	0.50
	0.90	0.25	0.10	1.60	1.15	2.30	0.01	0.20
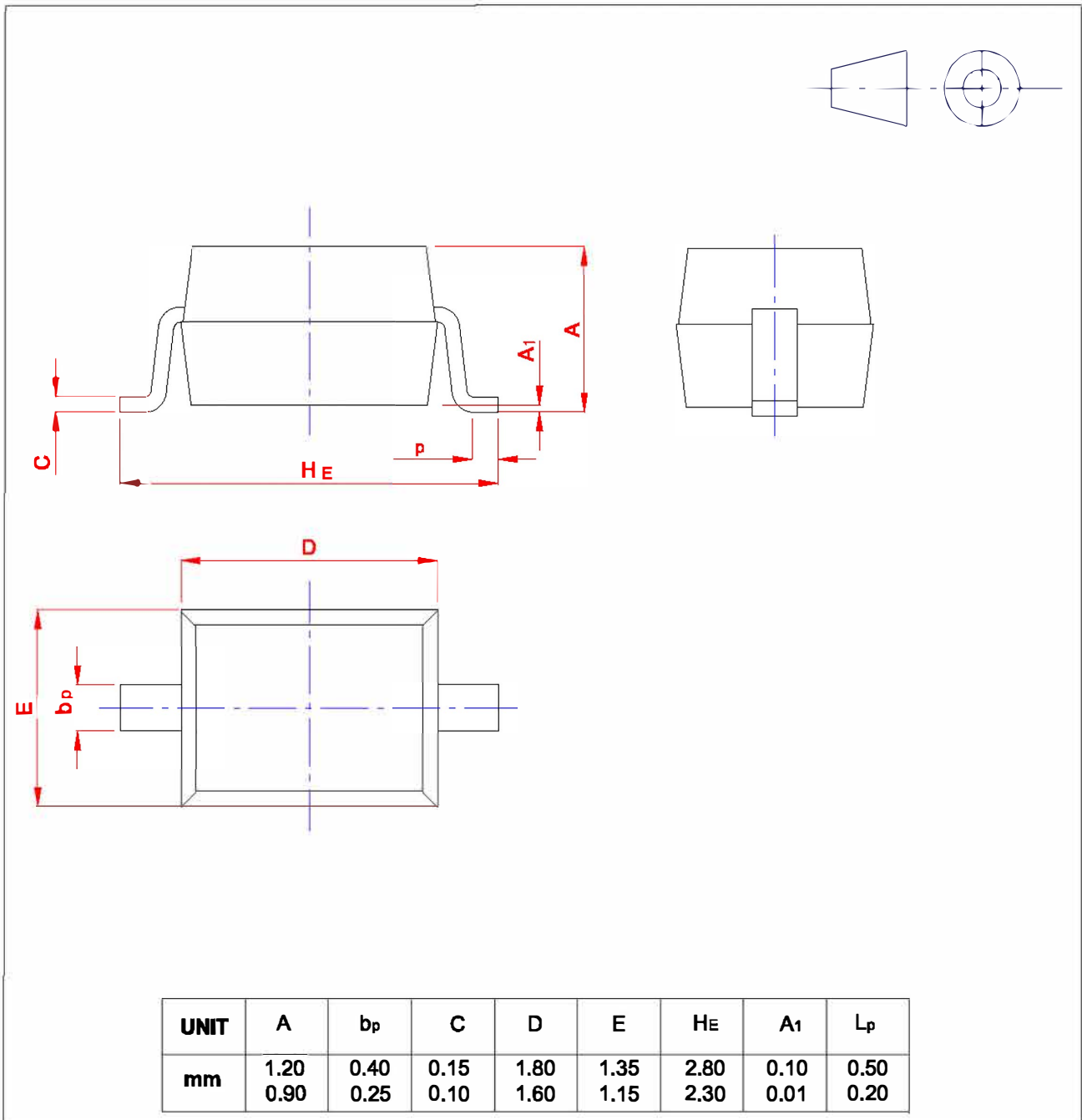
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