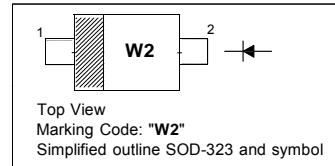


BAV16WS Silicon Epitaxial Planar Switching Diode
Features

- Fast switching speed
- Ultra-small surface mount package
- For general purpose switching applications
- High conductance

PINNING

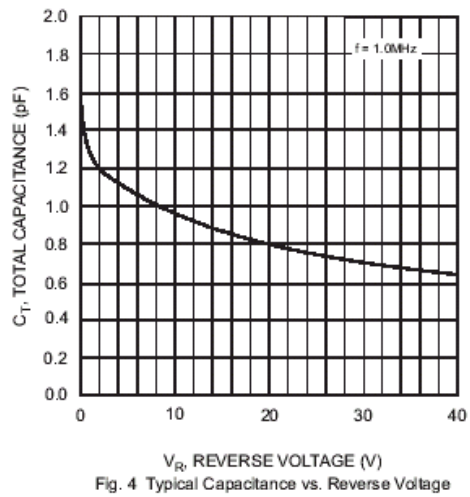
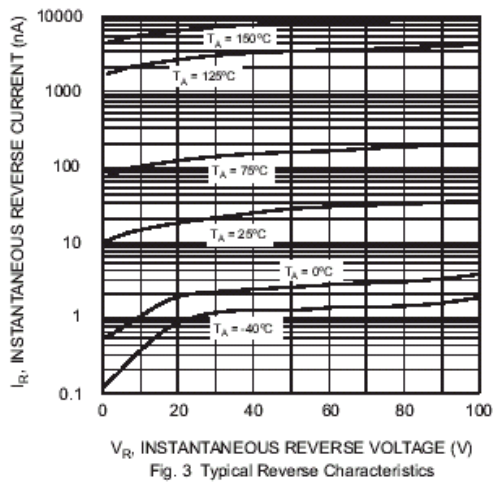
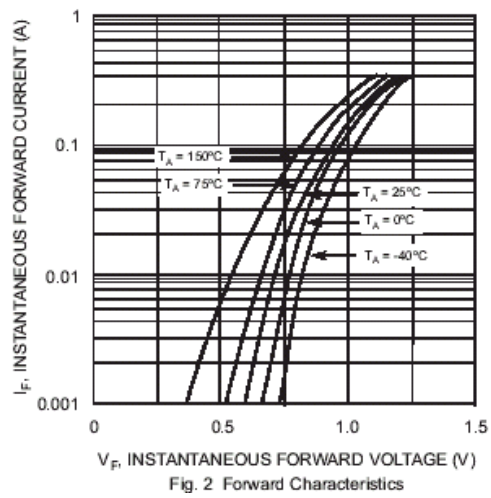
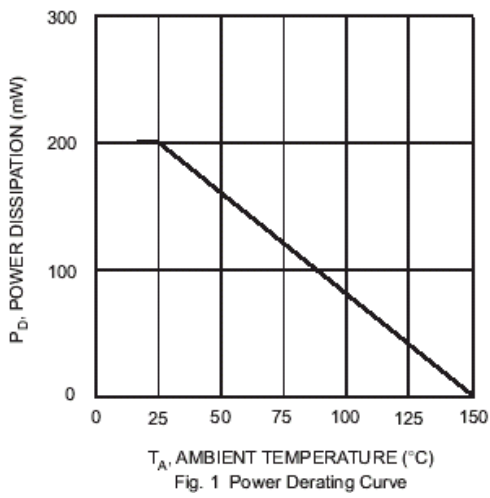
PIN	DESCRIPTION
1	Cathode
2	Anode


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

Parameter	Symbol	Value	Unit
Peak Reverse Voltage	V_{RM}	100	V
Reverse Voltage	V_R	75	V
Average Rectified Forward Current	$I_{F(AV)}$	150	mA
Forward Continuous Current	I_{FM}	300	mA
Non-Repetitive Peak Forward Current	I_{FSM}	2 1	A
		$t = 1\ \mu\text{s}$ $t = 1\ \text{s}$	
Power Dissipation	P_{tot}	200	mW
Thermal Resistance, Junction to Ambient	$R_{\theta JA}$	625	$^\circ\text{C/W}$
Operating and Storage Temperature Range	T_j, T_{stg}	- 65 to + 150	$^\circ\text{C}$

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

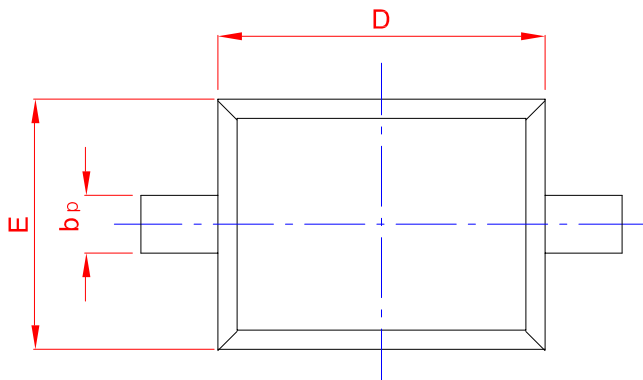
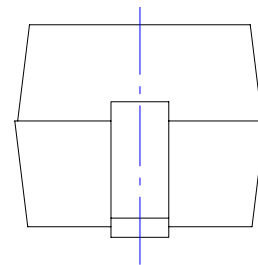
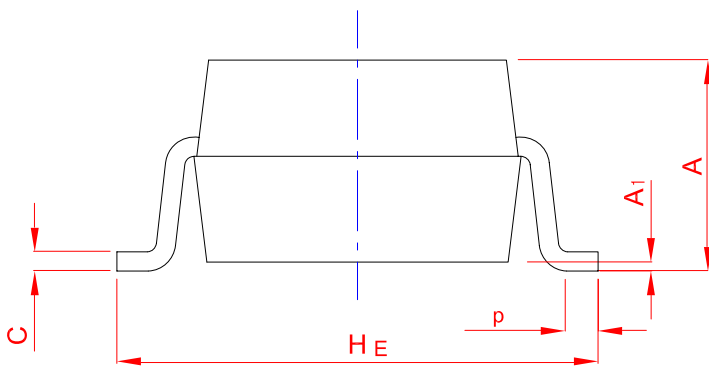
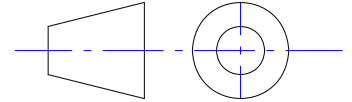
Parameter	Symbol	Min.	Max.	Unit
Reverse Breakdown Voltage at $I_R = 1\ \mu\text{A}$	$V_{(BR)R}$	75	-	V
Peak Reverse Current at $V_R = 20\ \text{V}$ at $V_R = 75\ \text{V}$ at $V_R = 25\ \text{V}, T_j = 150\text{ }^\circ\text{C}$ at $V_R = 75\ \text{V}, T_j = 150\text{ }^\circ\text{C}$	I_R	- - - -	25 1 30 50	nA μA μA μA
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
Total Capacitance at $V_R = 0\ \text{V}, f = 1\ \text{MHz}$	C_T	-	2	pF
Reverse Recovery Time at $I_F = I_R = 10\ \text{mA}, I_{RR} = 0.1 \times I_R, R_L = 100\ \Omega$	t_{rr}	-	4	ns



PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SOD-323



UNIT	A	b_p	C	D	E	H_E	A_1	L_p
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