

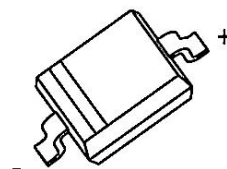
BAV21W

SWITCUING DIODE

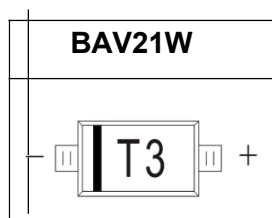
FEATURES

- *Fast Switching Speed
- *Low Reverse Current
- *Surface Mount Package Ideally Suited for Automatic Insertion
- *For General Purpose Switching Applications

SOD-323



MARKING



The marking bar indicates the cathode
Solid dot = Green molding compound device,
if none,the normal device.

ABSOLUTE MAXIMUM RATINGS (TC=25°C, unless otherwise specified)

SYMBOL	PARAMETER	VALUE	UNIT
		BAV21W	
VRM	Non-Repetitive Peak Reverse Voltage	250	V
VRRM	Peak Repetitive Peak Reverse Voltage	200	V
VRWM	Working Peak Reverse Voltage		
VR(RMS)	RMS Reverse Voltage		
IO	Average Rectified Output Current	200	mA
IFSM	Non-Repetitive Peak Forward Surge Current(tp=8.3ms)	2.0	A
Pd	Power Dissipation	500	mW
RθJA	Thermal Resistance from Junction to Ambient	250	°C/W
Tj,Tstg	Operation Junction and Storage Temperature Range	-55 to 150	°C

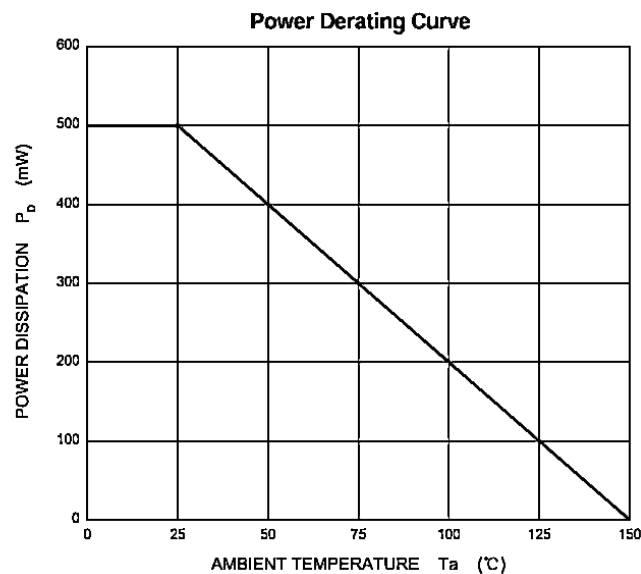
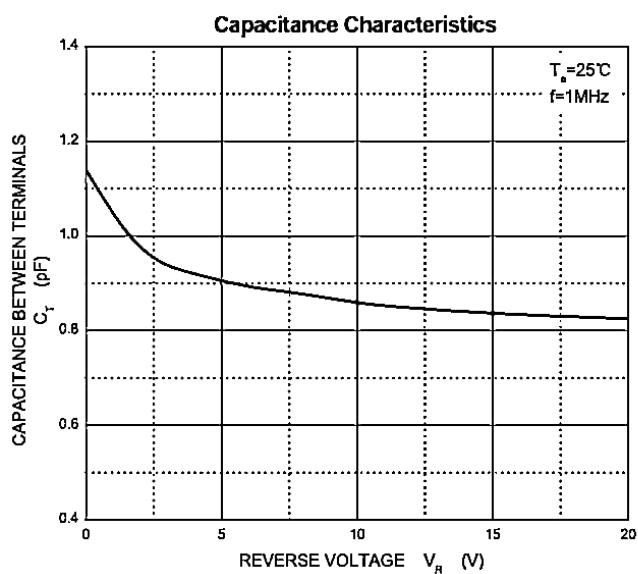
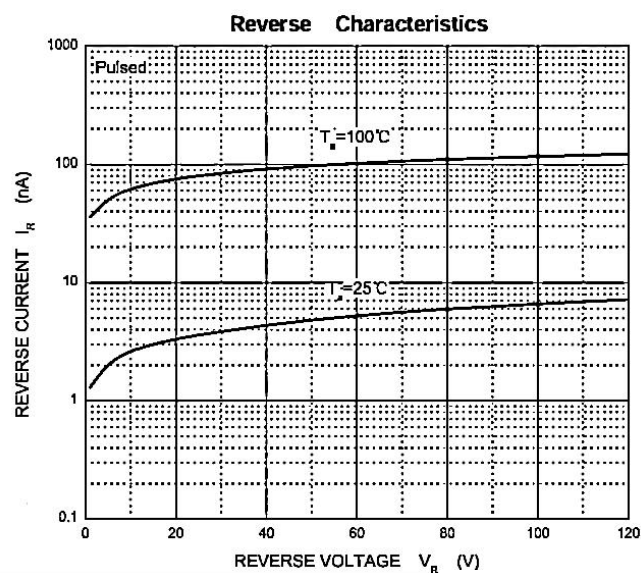
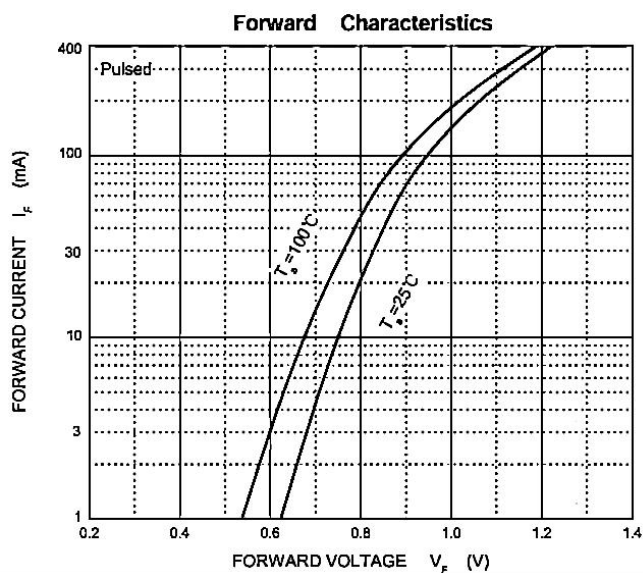
ELECTRICAL CHARACTERISTICS (Tc=25°C unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITIONS		MIN	TYP	MAX	UNIT
Reverse current	I_R	$V_R=200V$	BAV21WS			0.1	μA
Forward voltage	V_F	$I_F=100mA$				1	V
		$I_F=200mA$				1.25	
Total capacitance	C_{tot}	$V_R=0V, f=1MHz$				5	pF
Reverse recovery time	t_{rr}	$I_F=I_R=30mA$ $I_{rr}=0.1 \times I_R, R_L=100\Omega$				50	ns

BAV21W

SWITCHING DIODE

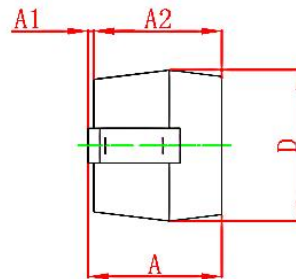
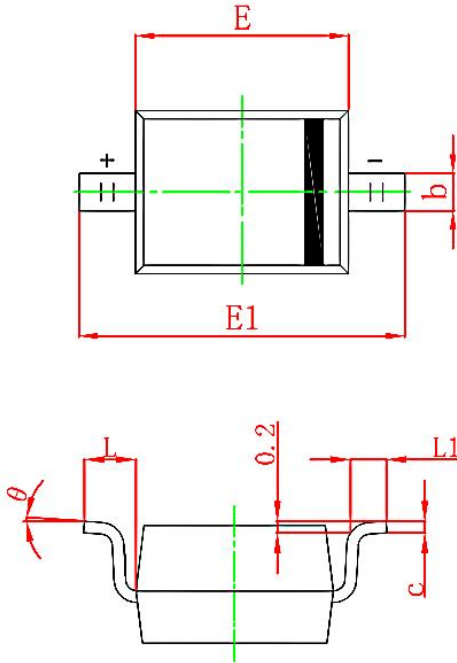
TYPICAL CHARACTERISTICS



BAV21W

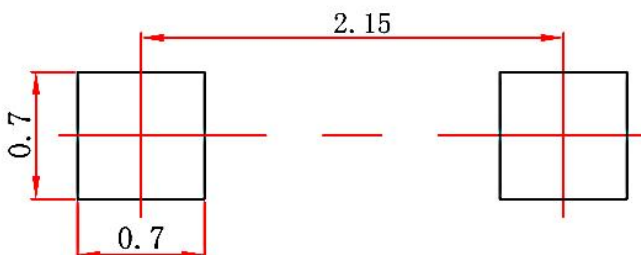
SWITCHING DIODE

SOD-323 PACKAGE OUTLINE DIMENSIONS



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min.	Max.	Min.	Max.
A		1.000		0.039
A1	0.000	0.100	0.000	0.004
A2	0.800	0.900	0.031	0.035
b	0.250	0.350	0.010	0.014
c	0.080	0.150	0.003	0.006
D	1.200	1.400	0.047	0.055
E	1.600	1.800	0.063	0.071
E1	2.550	2.750	0.100	0.108
L	0.475 REF.		0.019 REF.	
L1	0.250	0.400	0.010	0.016
θ	0°	8°	0°	8°

SOD-323 Suggested Pad Layout



Note:

1. Controlling dimension: in millimeters.
2. General tolerance: $\pm 0.05\text{mm}$.
3. The pad layout is for reference purposes only.