



BAV21WS SURFACE MOUNT SWITCHING DIODE

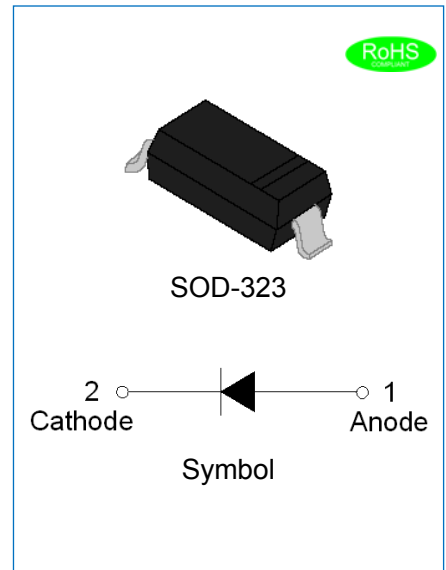
Rev.1.1

FEATURES

- ✧ Fast Switching Speed
- ✧ Surface Mount Package Ideally Suited for Automatic Insertion
- ✧ For Surface Mounted Applications
- ✧ General Purpose Diodes
- ✧ RoHS Compliant/ Green EMC

MECHANICAL DATA

- ✧ Case: SOD-323, Plastic
- ✧ Matte Tin(Sn) Lead Finish
- ✧ Polarity: Cathode Band
- ✧ Weight: 0.01 grams(approx.)
- ✧ Quantity Per Reel:3,000pcs
- ✧ Type Code: T3



MAXIMUM RATING

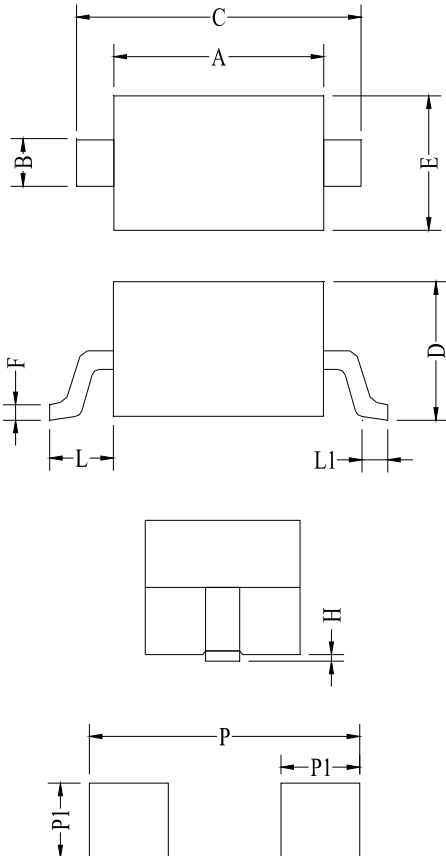
(Rating at 25°C ambient temperature unless otherwise specified.)

Parameter	Symbol	BAV21WS	Unit
Continuous Reverse Voltage	V_R	200	V
Peak Repetitive Reverse Voltage	V_{RM}	250	V
Peak Forward Current at $T_A=25^\circ\text{C}$	I_{FM}	400	mA
Average Rectified Output Current	I_O	200	mA
Non-Repetitive Forward Surge Current	$t_P=1\mu\text{s}$	9	A
	$t_P=1\text{s}$	0.5	
Power Dissipation at $T_A=25^\circ\text{C}$	P_D	250	mW
Thermal Resistance (Junction to Ambient)	$R_{\theta JA}$	500	$^\circ\text{C}/\text{W}$
Operating Junction Temperature Range	T_j	-55 to +150	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	-55 to +150	$^\circ\text{C}$

ELECTRICAL CHARACTERISTICS(Rating at 25°C ambient temperature unless otherwise specified.)

Symbol	Parameter	Conditions	Value			Unit
			Min.	Typ.	Max.	
V _F	Forward Voltage	I _F =100mA	-	-	1.0	V
		I _F =200mA	-	-	1.25	V
I _R	Reverse Current	V _R =200V, T _j =25°C	-	-	0.1	μA
		V _R =200V, T _j =100°C	-	-	15	μA
C _T	Capacitance	V _R =0V, f=1MHz	-	1.5	-	pF
T _{rr}	Reverse Recovery Time	I _F =I _R =30mA I _{RR} =0.1*I _R , R _L =100Ω	-	-	50	ns

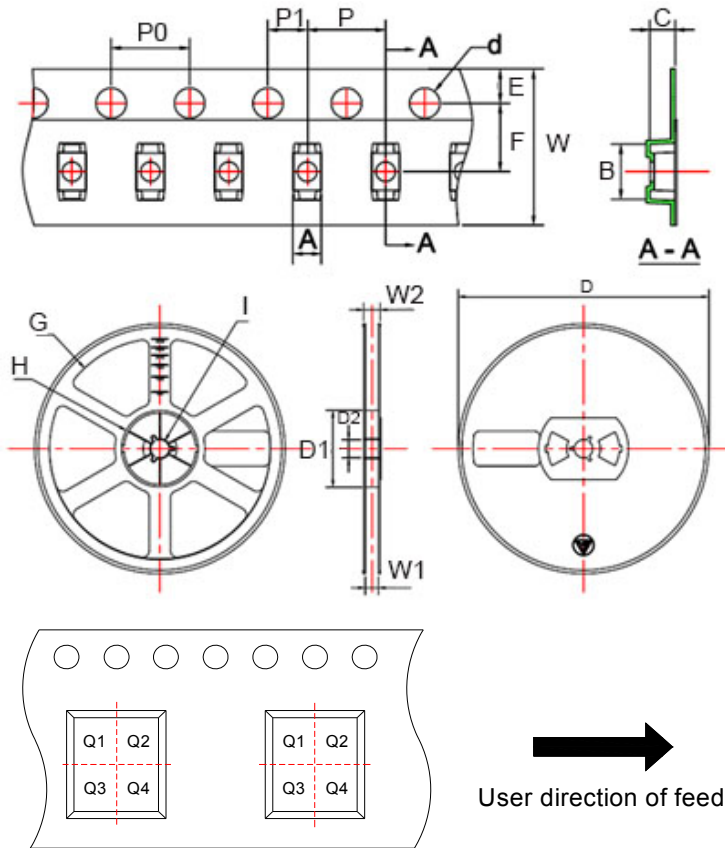
PACKAGE MECHANICAL DATA



Land Pattern

Symbol	Millimeters			Inches		
	Min	Typ	Max	Min	Typ	Max
A	1.60	1.70	1.80	0.063	0.067	0.071
B	0.25	0.32	0.40	0.010	0.013	0.016
C	2.30	2.60	2.80	0.091	0.102	0.110
D	0.80	0.95	1.10	0.031	0.037	0.043
E	1.20	1.30	1.40	0.047	0.051	0.055
F	0.08	0.13	0.18	0.003	0.005	0.007
L	0.475REF			0.019REF		
L1	0.25	0.33	0.40	0.010	0.013	0.016
H	0.00	0.06	0.14	0.000	0.002	0.006
P	3.00			0.118		
P1	0.80			0.031		

TAPE AND REEL INFORMATION-SOD-323



Pin 1 quadrant:Q1&Q2

Packaging description:

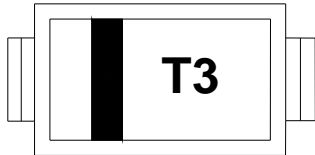
SOD-323 parts are shipped in tape. The carrier tape is made from a dissipative(carbon filled) polycarbonate resin. The cover tape is a multilayer film(heat activated adhesive in nature)primarily composed of polyester film, adhesive layer, sealant, and anti-static sprayed agent. The reels are blue in color and made of recyclable plastic.

Symbol	Millimeters	Inches
	Typ	Typ
A	1.46	0.057
B	2.90	0.114
C	1.25	0.049
d	ø1.50	ø0.059
E	1.75	0.069
F	3.50	0.138
P0	4.00	0.157
P	4.00	0.157
P1	2.00	0.079
W	8.00	0.315
D	ø178.0	ø7.008
D1	54.40	2.142
D2	13.00	0.512
G	R78.0	R3.071
H	R25.60	R1.008
I	R6.50	R0.256
W1	9.50	0.374
W2	12.30	0.484

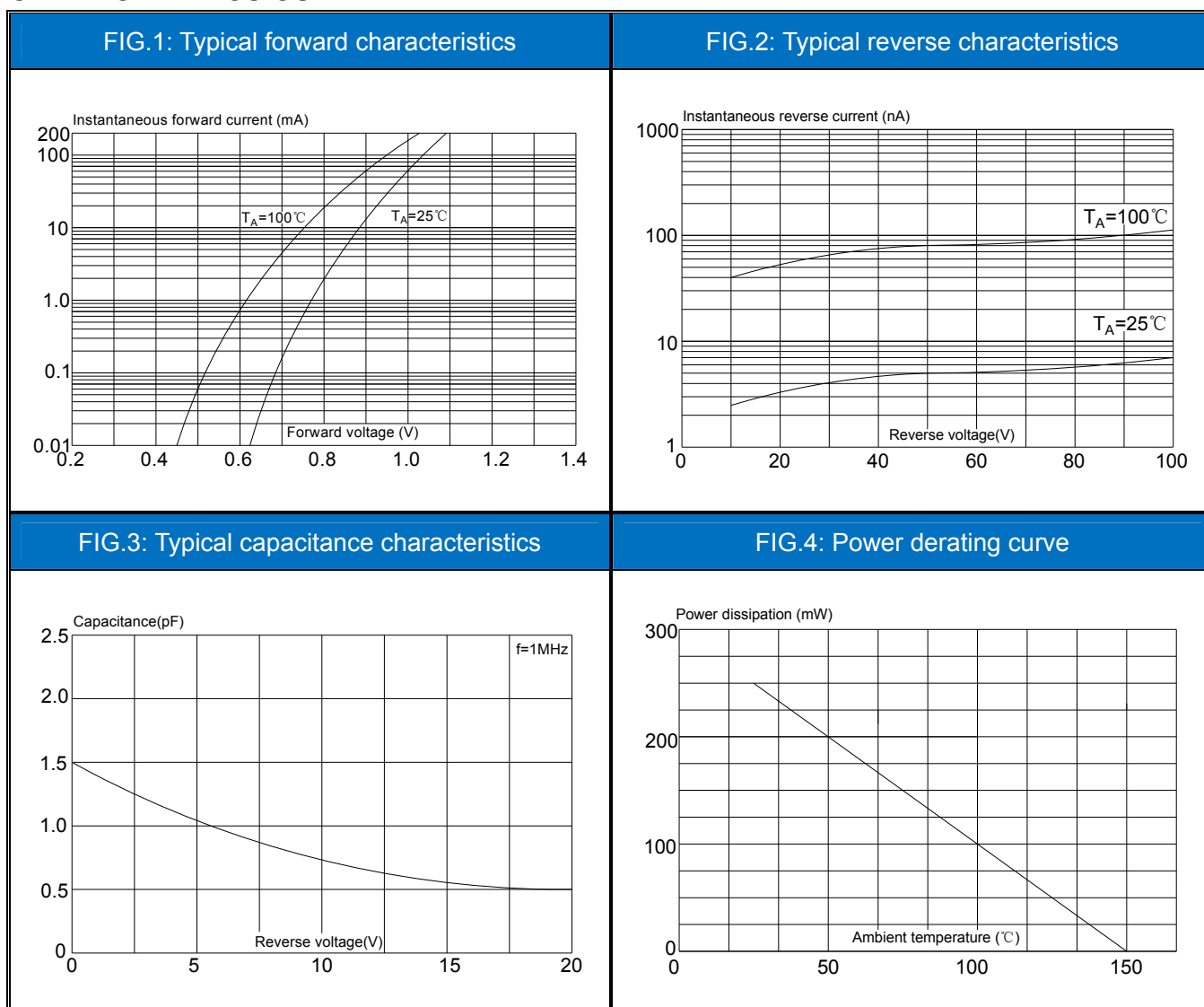
ORDERING INFORMATION

OUTLINE	PACKAGE TYPE	QUANTITY REEL	DESCRIPTION
TAPING	SOD-323	3,000	7 inch reel pack

MARKING CODE

Part Number	Marking Code
BAV21WS	

CHARACTERISTICS CURVE




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