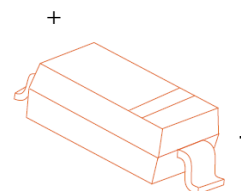


FEATURES

Fast Switching Speed
Surface Mount Package Ideally Suited for Automatic Insertion
For General Purpose Switching Applications
High Conductance

SOD-323



MARKING

Type number	Marking code
BAV19WS	A8
BAV20WS	T2
BAV21WS	T3

Maximum Ratings and Electrical Characteristics, Single Diode @T_A=25°C

Parameter	Symbo	BAV19WS	BAV20WS	BAV21WS	Unit
Non-Repetitive Peak reverse voltage	V _{RM}	120	200	250	V
Peak Repetitive Peak reverse voltage	V _{RRM}				
Working Peak Reverse Voltage	V _{RWM}	100	150	250	V
DC Blocking Voltage	V _R				
RMS Reverse Voltage	V _{R(RMS)}	71	106	141	V
Average Rectified Output Current	I _O	200			mA
Peak forward surge current @=1.0ms @=1.0s	I _{FSM}	2.0 0.5			A
Repetitive Peak Forward Current	I _{FRM}	625			mA
Power Dissipation	P _d	250			mW
Thermal Resistance Junction to Ambient	R _{θJA}	500			°C/W
Storage temperature	T _{STG}	-65~+150			°C

Electrical Ratings @T_A=25°C

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 BAV19WS BAV20WS BAV21WS	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 I _{rr} =0.1X I _R , R _L =100Ω

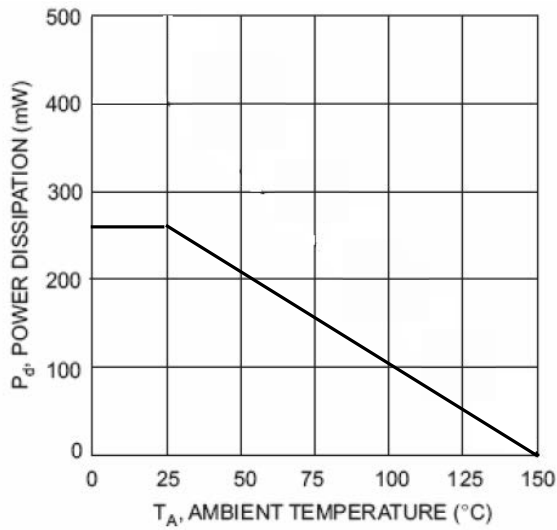


Fig. 1 Power Derating Curve

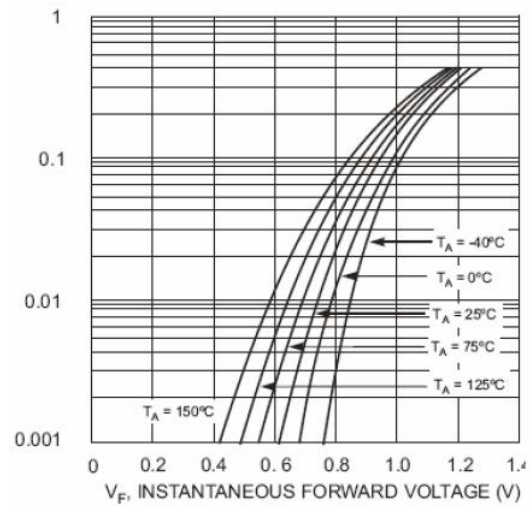


Fig. 2 Typical Forward Characteristics

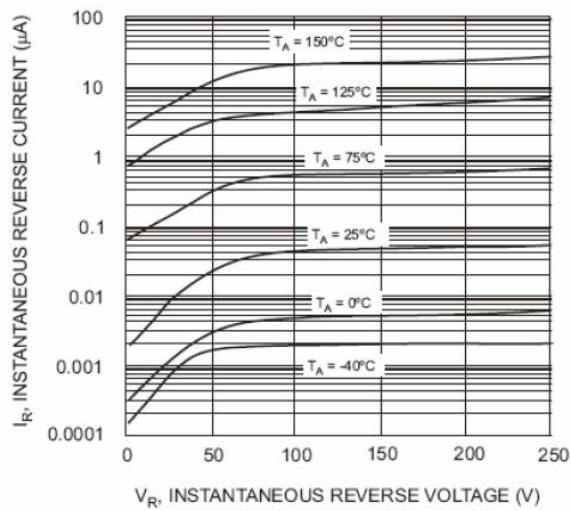


Fig. 3 Typical Reverse Characteristics

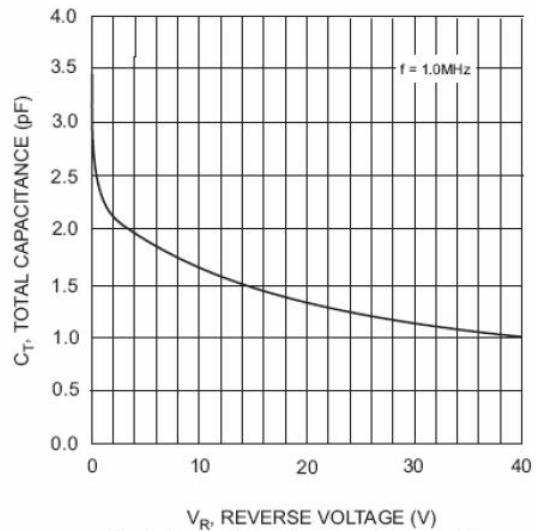
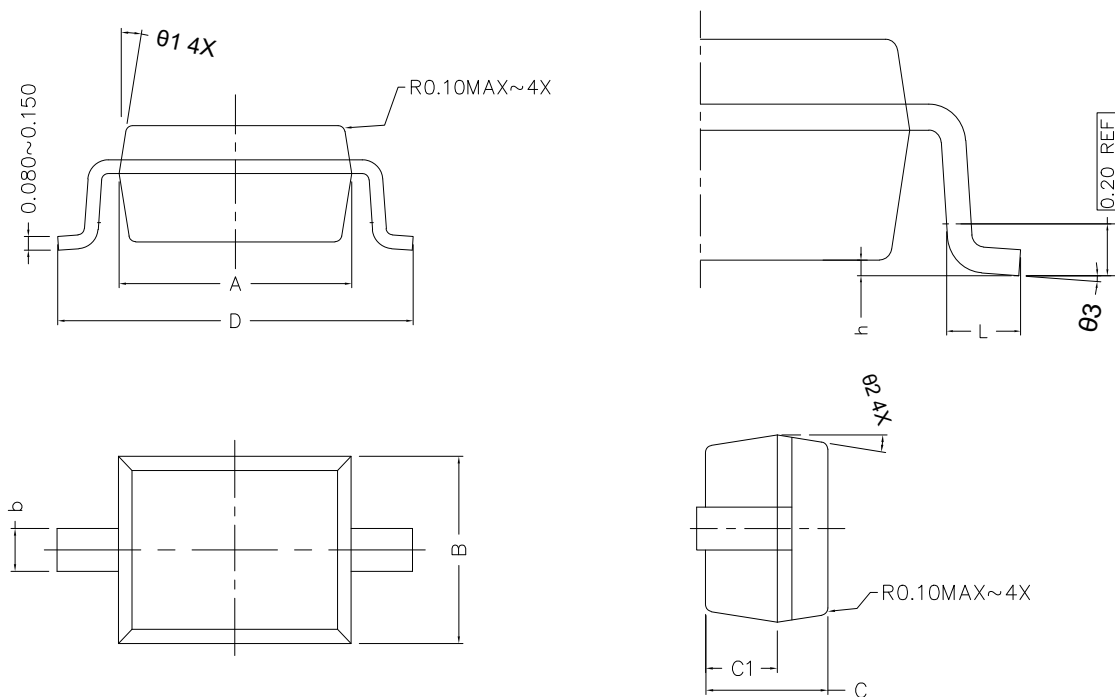


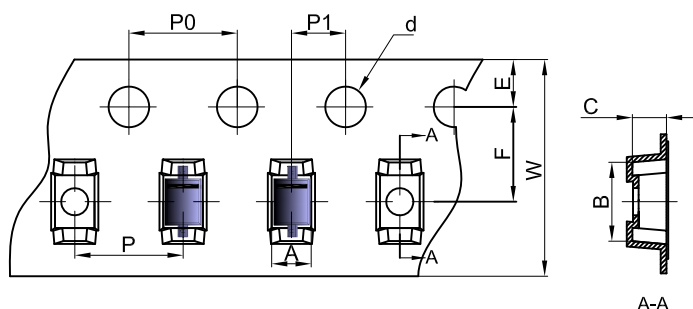
Fig. 4 Typical Capacitance vs. Reverse Voltage

SOD-323 Package Outline Dimensions (Units: mm)



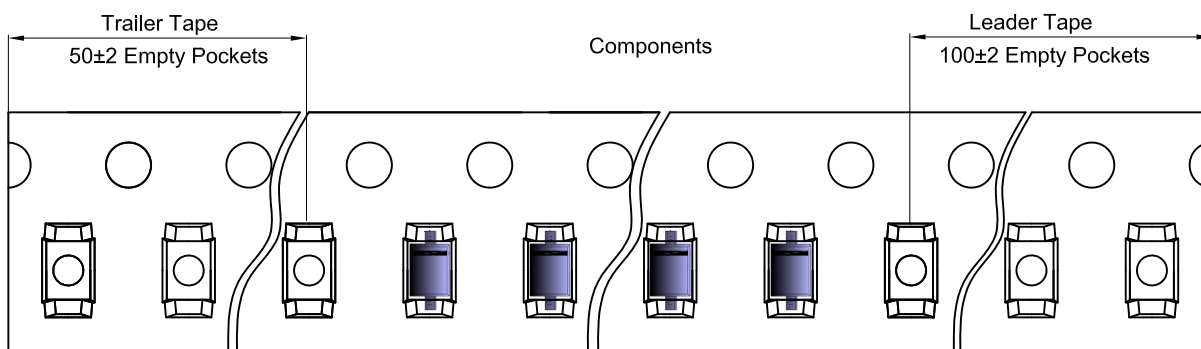
COMMON DIMENSIONS (UNITS OF MEASURE IS mm)			
	MIN	NORMAL	MAX
A	1.600	1.700	1.800
B	1.200	1.300	1.400
C	0.750	0.850	0.950
C1	0.450	0.500	0.550
D	2.450	2.600	2.750
L	0.200	0.300	0.400
b	0.200	0.300	0.400
h	0.010	0.050	0.100
$\theta 1$	9° TYPE		
$\theta 2$	9° TYPE		
$\theta 3$	0° ~ 8°		

SOD-323 Embossed Carrier Tape

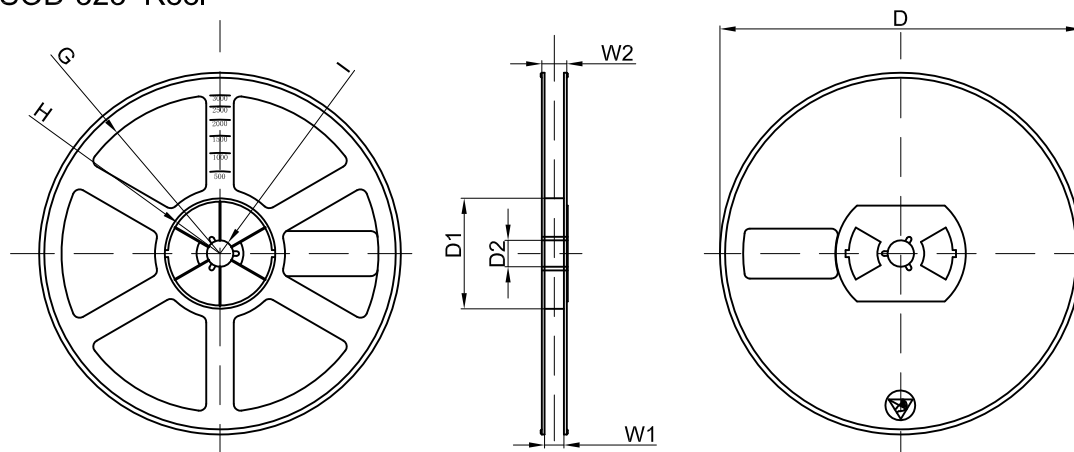


Dimensions are in millimeter										
Pkg type	A	B	C	d	E	F	P0	P	P1	W
SOD-323	1.48	3.3	1.25	Ø1.50	1.75	3.50	4.00	4.00	2.00	8.00

SOD-323 Tape Leader and Trailer



SOD-323 Reel



Dimensions are in millimeter								
Reel Option	D	D1	D2	G	H	I	W1	W2
7"Dia	Ø178.00	54.40	13.00	R78.00	R25.60	R6.50	9.50	12.30

REEL	Reel Size	Box	Box Size(mm)	Carton	Carton Size(mm)	G.W.(kg)
3000 pcs	7 inch	45,000 pcs	192x182x182	180,000 pcs	400x385x205	

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