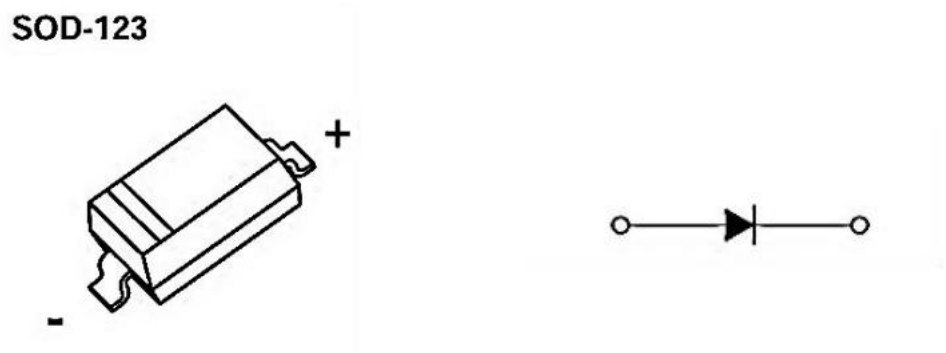
Descriptions

The is 100~200V 200mA Switching Diode in SOD-123 package.

Features

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

Equivalent Circuit & Pinning



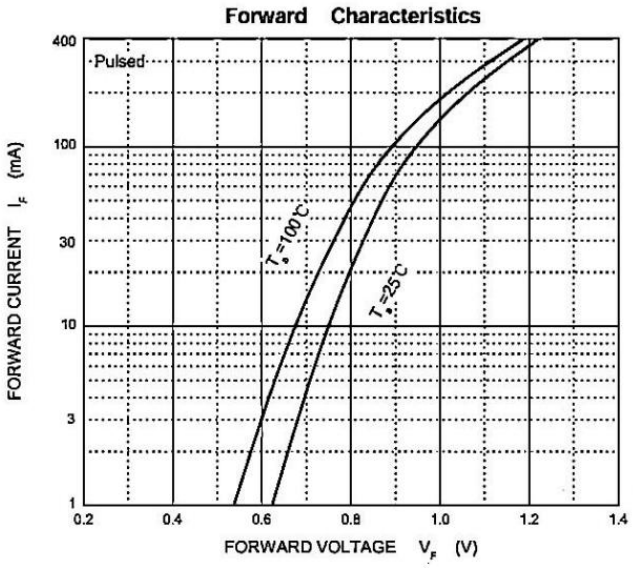
Absolute Maximum Ratings(Ta=25℃)

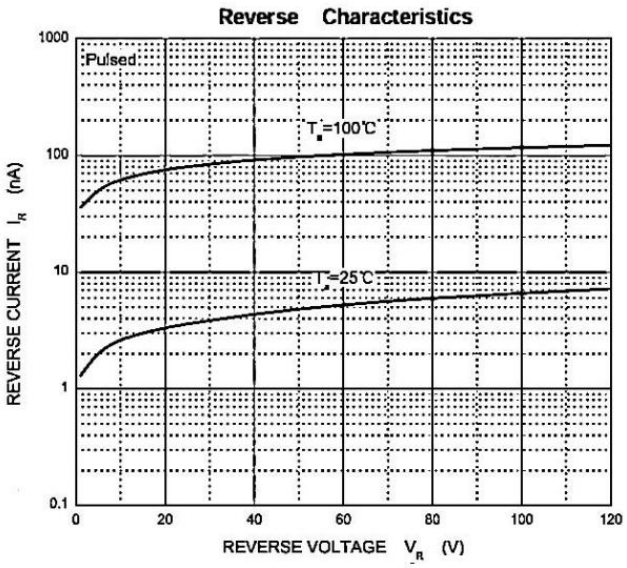
SYMBOL	PARAMETER	VALUE			UNIT
		BAV19W	BAV20W	BAV21W	
V_{RM}	Non-Repetitive Peak Reverse Voltage	120	200	250	V
V_{RRM}	Peak Repetitive Peak Reverse Voltage	100	150	200	V
V_{RWM}	Working Peak Reverse Voltage				
$V_{R(RMS)}$	RMS Reverse Voltage	71	106	141	
I_O	Average Rectified Output Current	200			mA
I_{FSM}	Non-Repetitive Peak Forward Surge Current(tp=8.3ms)	2.0			A
Pd	Power Dissipation	500			mW
$R_{\theta JA}$	Thermal Resistance from Junction to Ambient(Note 1)	250			°C/W
Tj,Tstg	Operation Junction and Storage Temperature Range	-55 to 150			°C

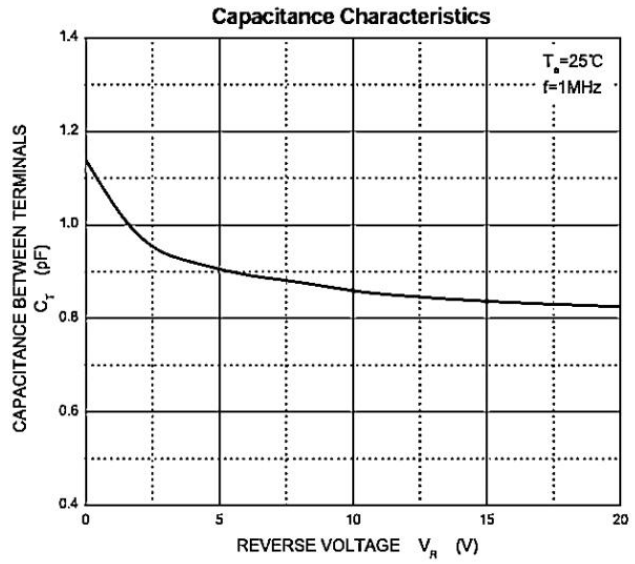
Electrical Characteristics(Ta=25℃)

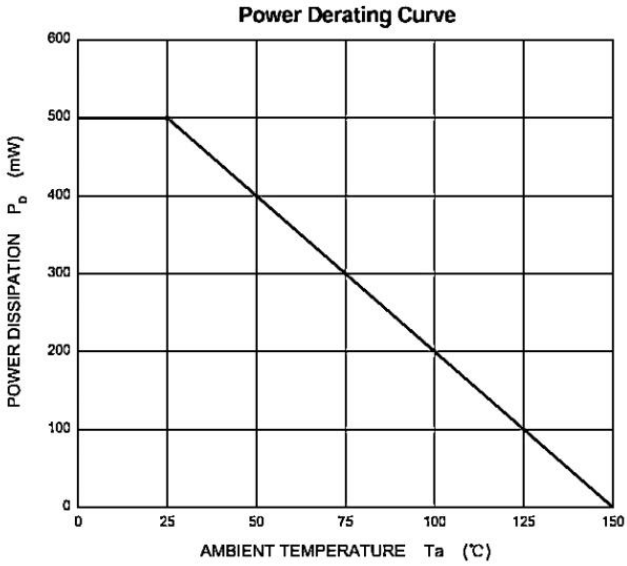
PARAMETER	SYMBOL	TEST CONDITIONS		MIN	TYP	MAX	UNIT
Forward current	I_R	V_R= 100V	BAV19W			0.1	μA
		V_R= 150V	BAV20W			0.1	
		V_R=200V	BAV21W			0.1	
Reverse voltage	V_F	I_F= 100mA				1	V
		I_F=200mA				1.25	
Capacitance between terminals	Ctot	V_R=0V,f=1MHz				5	pF
Reverse recovery time	t_{rr}	I_F=I_R= 10mA I_{rr}=0. 1XI_R,R_L= 100Ω				50	ns

Electrical Characteristic Curve









Marking Instructions

BAV19W	BAV20W	BAV21W
		

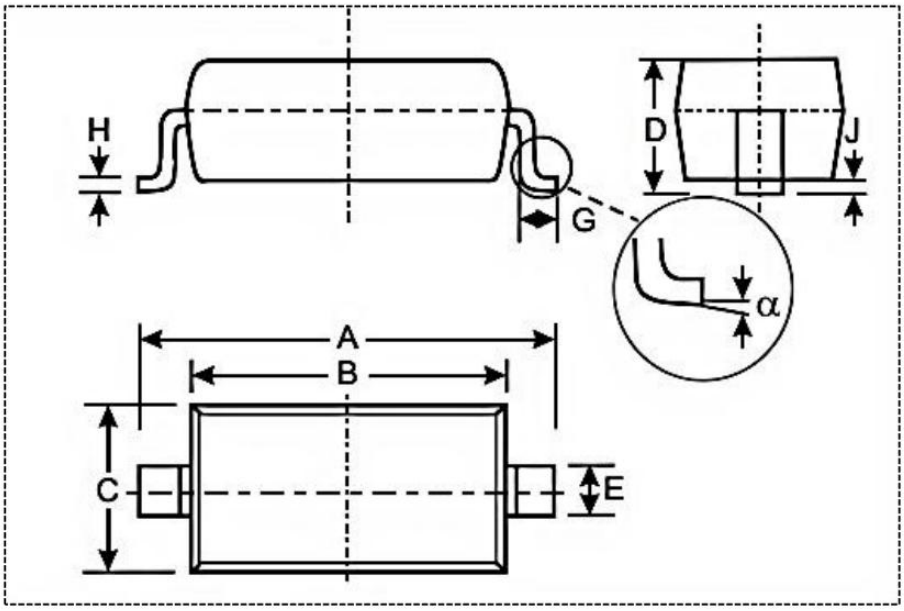
The marking bar indicates the cathode
Solid dot = Green molding compound device,
if none,the normal device.

Packaging SPEC

REEL

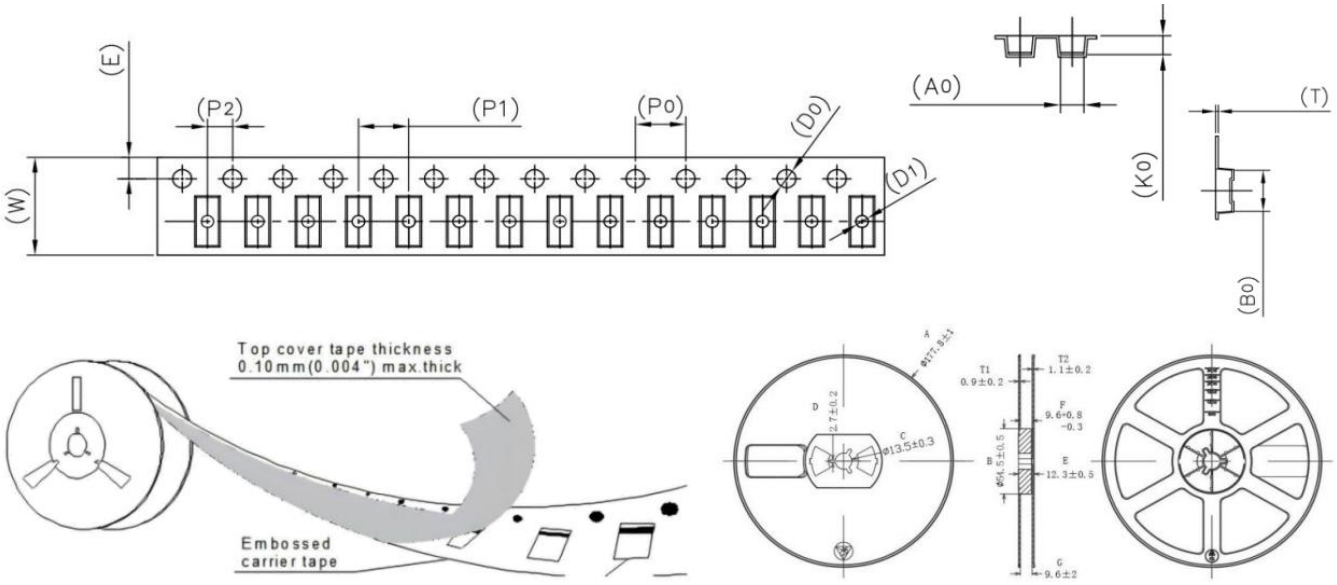
Package type	Units/Reel
SOD-123	3000

Package Outline Dimensions



SOD-123		
Dim	Min	Max
A	3.55	3.85
B	2.60	2.80
C	1.50	1.70
D	1.06	1.25
E	0.45	0.65
G	0.25	-
H	0.09	0.15
J	0.01	0.1
α	0°	8°
All Dimensions in mm		

Package Outline Dimensions



Dimensions are in millimeter											
PKG TYPE	W	A0	B0	K0	E	P1	P0	P2	D0	D1	T
SOD-123	8.00	1.77	3.91	1.33	1.75	4.00	4.00	2.00	1.50	1.00	0.20
Reel Optiom	A	B	C	D	E	F	G	T1	T2	Q.TY PER REEL	
7" Dia	Φ177.8	Φ54.5	Φ13.5	2.7	12.3	9.6	9.6	0.9	1.1	3000PCS	