

SOD123 Plastic-Encapsulate Diodes

Small Signal Fast Switching Diodes

Features

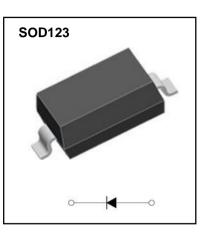
- Low Reverse Current
- Surface Mount Package Ideally Suited for Automatic Insertion
- Fast Switching Speed
- For General Purpose Switching Applications

Applications

• Extreme fast switches

Marking

- BAV19W: A8
- BAV20W: T2
- BAV21W: T3



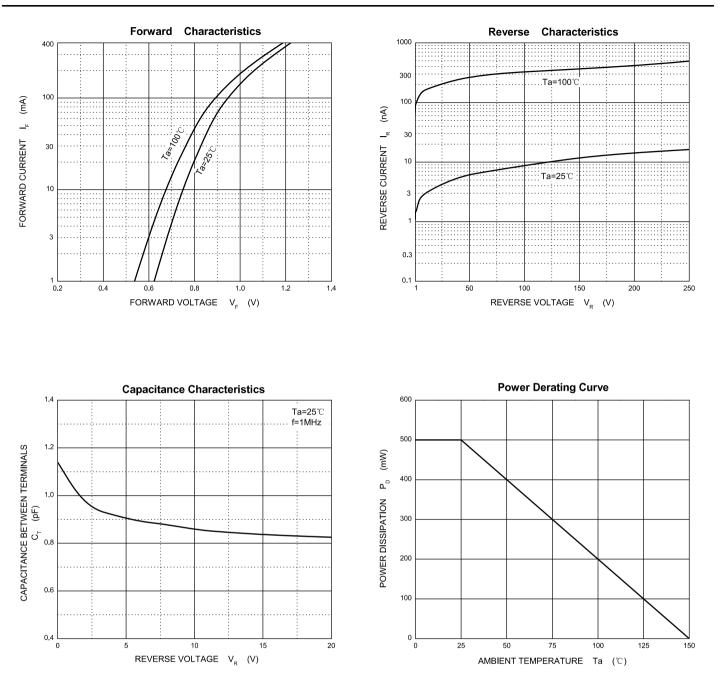
Limiting Values (Absolute Maximum Rating)

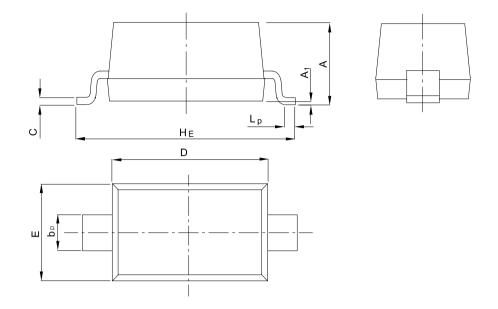
Symbol	Parameter		Unit		
Symbol	Falameter	BAV19W	BAV20W	BAV21W	Unit
V _{RM}	Non-Repetitive Peak Reverse Voltage	120	250	V	
V _{RRM}	Peak Repetitive Reverse Voltage	100	150	200	
V _{RWM}	Working Peak Reverse Voltage	100	150	200	V
V _{R(RMS)}	RMS Reverse Voltage	71	106	141	V
lo	Average Rectified Output Current		mA		
I _{FSM}	Non-repetitive Peak Forward Surge Current @ t=8.3ms		А		
PD	Power Dissipation		mW		
R _{ØJA}	Thermal Resistance from Junction to Ambient			°C/W	
Tj	Junction Temperature	150			°C
T _{stg}	Storage Temperature			°C	

ELECTRICAL CHARACTERISTICS(T_a=25[°]C unless otherwise specified)

Parameter	Symbol	Test conditions		Min	Тур	Max	Unit	
		V _R =100V	BAV19W			0.1		
Reverse current	I _R	V _R =150V	BAV20W			0.1	uA	
		V _R =200V	BAV21W			0.1		
E a margarel a sa Margare	V _F	I _F =100mA				1	Ň	
Forward voltage		I _F =200mA				1.25	V	
Total capacitance	C _{tot}	V _R =0V,f=1MHz			5	pF		
Reverse recovery time	t _{rr}	$I_F = I_R = 30 \text{mA}, I_{rr} = 0.1 \text{*} I_R$, R_L	=100Ω			50	ns	

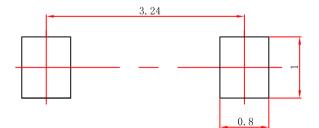
Typical Characteristics





UNIT	A	bp	С	D	Е	ΗE	A1	Lp
mm	1.20 0.90	0.60 0.50	0.135 0.100	2.75 2.55	1.65 1.55	3.85 3.55	0.10 0.01	0.50 0.20

SOD-123 Suggested Pad Layout



Note:

1.Controlling dimension:in millimeters.

2.General tolerance:± 0.05mm.

3. The pad layout is for reference purposes only.

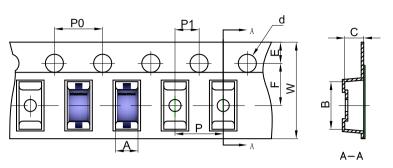
NOTICE

JSHD reserve the right to make modifications, enhancements, improvements, corrections or other changes without further notice to any product herein.JSHD does not assume any liability arising out of the application or use of any product described herein.

High Diode Semiconductor

Reel Taping Specifications For Surface Mount Devices-SOD123

SOD-123 Embossed Carrier Tape

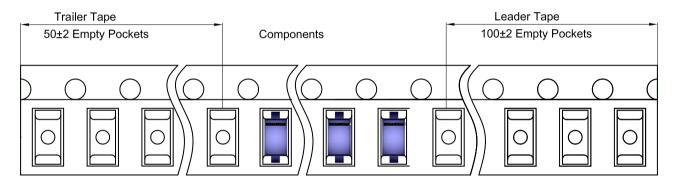


Packaging Description:

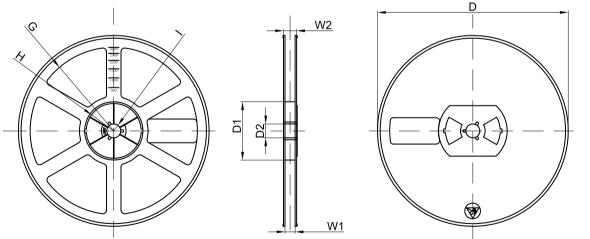
SOD-123 parts are shipped in tape. The carrier tape is made from a dissipative (carbon filled) polycarbonate resin. The cover tape is a multilayer film (Heat Activated Adhesive in nature) primarily composed of polyester film, adhesive layer, sealant, and anti-static sprayed agent. These reeled parts in standard option are shipped with 3,000 units per 7" or 17.8cm diameter reel. The reels are clear in color and is made of polystyrene plastic (anti-static coated).

Dimensions are in millimeter										
Pkg type	А	В	С	d	E	F	P0	Р	P1	W
SOD-123	1.85	3.95	1.57	Ø1.55	1.75	3.50	4.00	4.00	2.00	8.00

SOD-123 Tape Leader and Trailer



SOD-123 Reel



Dimensions are in millimeter								
Reel Option	D	D1	D2	G	Н	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	203×203×195	180,000 pcs	438×438×220	

High Diode Semiconductor

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Diodes - General Purpose, Power, Switching category:

Click to view products by High Diode manufacturer:

Other Similar products are found below :

MCL4151-TR3 MMBD3004S-13-F RD0306T-H RD0506LS-SB-1H RGP30G-E373 DSE010-TR-E BAQ333-TR BAQ335-TR BAQ33-GS18 BAS1602VH6327XT BAV17-TR BAV19-TR BAV301-TR BAW27-TAP HSC285TRF-E NSVBAV23CLT1G NTE525 1SS181-TP 1SS184-TP 1SS193,LF 1SS193-TP 1SS400CST2RA SBAV99LT3G SDAA13 LL4448-GS18 SHN2D02FUTW1T1G LS4150GS18 LS4151GS08 SMMBD7000LT3G FC903-TR-E 1N4449 1N4934-E3/73 1SS226-TP APT100DL60HJ RFUH20TB3S RGP30G-E354 RGP30M-E3/73 D291S45T MCL4151-TR BAS 16-02V H6327 BAS 21U E6327 BAS 28 E6327 BAS33-TAP BAS 70-02V H6327 BAV300-TR BAV303-TR3 BAW27-TR BAW56DWQ-7-F BAW56M3T5G BAW75-TAP