

■ Switching Diodes

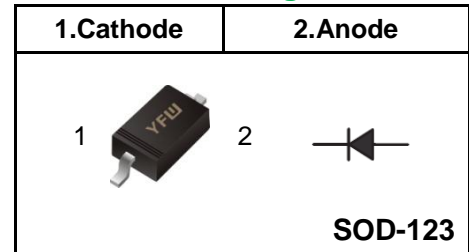
**FEATURES**

- ◆ For surface mounted applications
- ◆ Glass Passivated Chip Junction
- ◆ Fast reverse recovery time
- ◆ Ideal for automated placement
- ◆ Lead free in comply with EU RoHS 2011/65/EU directives

**MECHANICAL DATA**

- ◆ Case: SOD-123
- ◆ Terminals: Solderable per MIL-STD-750, Method 2026
- ◆ Approx. Weight: 16mg / 0.00056oz

**Pinning**



**Marking Code**

<b>BAV19W</b>	<b>A8</b>
<b>BAV20W</b>	<b>T2</b>
<b>BAV21W</b>	<b>T3</b>

**Absolute Maximum Ratings at 25 °C**

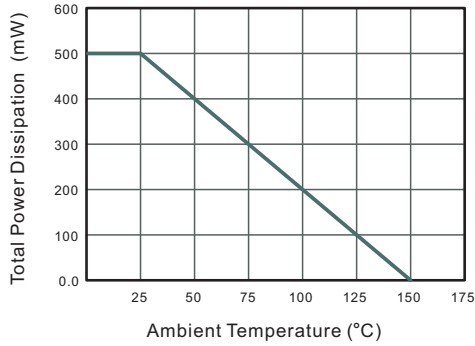
Parameter	Symbols	BAV19W	BAV20W	BAV21W	Units
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	120	200	250	V
Maximum RMS voltage	$V_{RMS}$	100	150	200	V
Continuous Forward Current	$I_F$	250			mA
Repetitive Peak Forward Current	$I_{FRM}$	625			mA
Non-reptitive Peak Forward Surge Current	$I_{FSM}$	at 1s	1		A
		at 1ms	3		
		at 1us	9		
Total Power Dissipation	$P_{tot}$	500			mW
Operating and Storage Temperature Range	$T_j, T_{stg}$	-55 ~ +150			°C

**Characteristics at Ta = 25 °C**

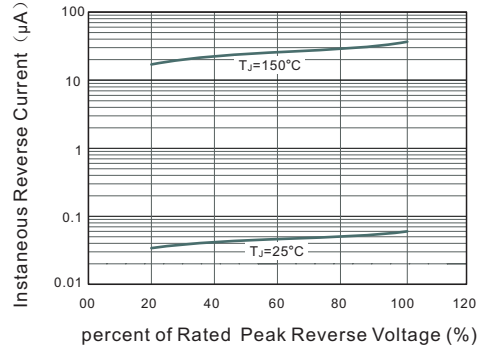
Parameter	Symbols	BAV19W	BAV20W	BAV21W	Units
Reverse Breakdown Voltage at $I_R=100\mu A$	$V_{(BR)R}$	120	200	250	V
Maximum Forward Voltage	$V_F$	at 100 mA	1.00		V
		at 200 mA	1.25		
Maximum DC Reverse Current at Rated DC Blocking Voltage	$I_R$	$T_a=25^\circ C$	0.1		uA
		$T_a=150^\circ C$	100		
Typical Junction Capacitance at $V_R=4V, f=1MHz$	$C_j$	5			pF
Maximum Reverse Recovery Time	$T_{rr}$	50			nS

(1) Measured with  $I_F = 0.5 A, I_R = 1 A, I_{rr} = 0.25 A$

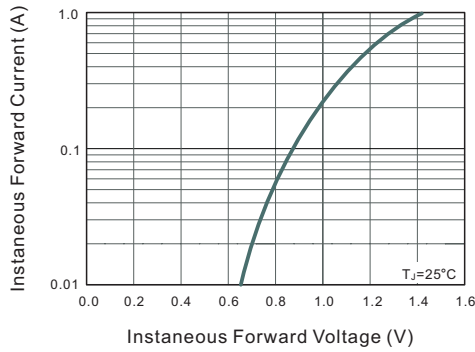
**Fig.1 Forward Current Derating Curve**



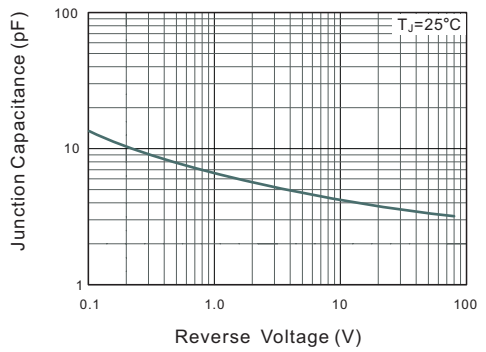
**Fig.2 Typical Reverse Characteristics**



**Fig.3 Typical Instantaneous Forward Characteristics**



**Fig.4 Typical Junction Capacitance**



**Package Outline SOD-123**

Plastic surface mounted package; 2 leads



UNIT		A	C	D	E	E <sub>1</sub>	L <sub>1</sub>	b	A <sub>1</sub>	∠
mm	max	1.3	0.22	1.8	2.8	3.9	0.45	0.7	0.2	9°
	min	0.9	0.09	1.5	2.5	3.6	0.25	0.5	—	
mil	max	51	8.7	71	110	154	18	28	8	
	min	35	3.5	59	98	142	10	20	—	

**The recommended mounting pad size**



Unit:  $\frac{\text{mm}}{\text{mil}}$

**Summary of Packing Options**

Package	Packing Description	Packing Quantity	Industry Standard
SOD-123	Tape/Reel, 7" reel	3000	EIA-481-1

单击下面可查看定价，库存，交付和生命周期等信息

[>>YFW\(佑风微\)](#)