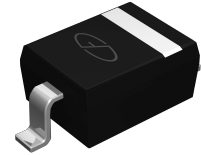


**Features**

- Small signal switching diode
- For general purpose
- RoHS compliant



SOD-123

**Absolute Maximum Ratings**

(T<sub>A</sub>=25°C unless otherwise noted)

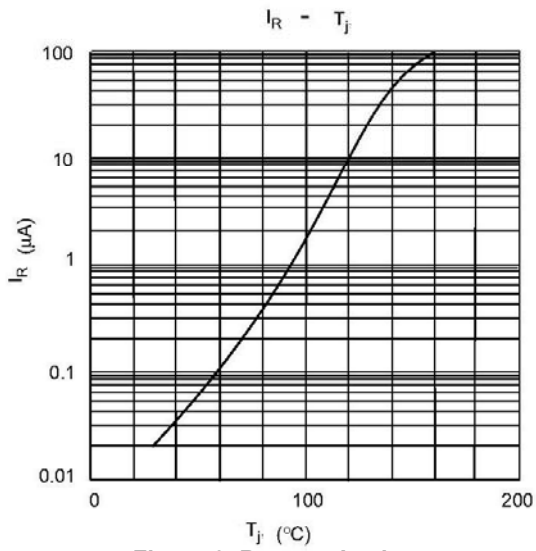
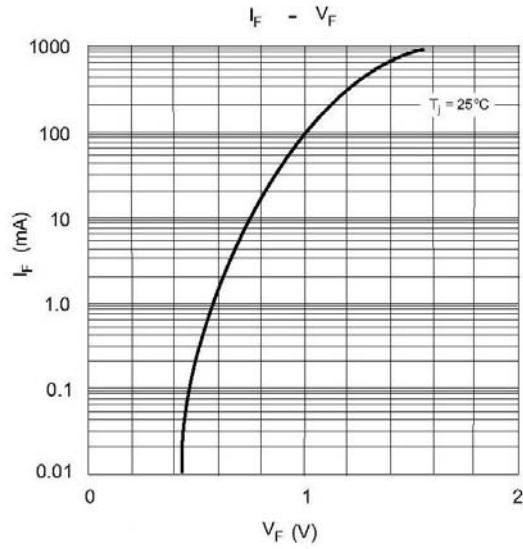
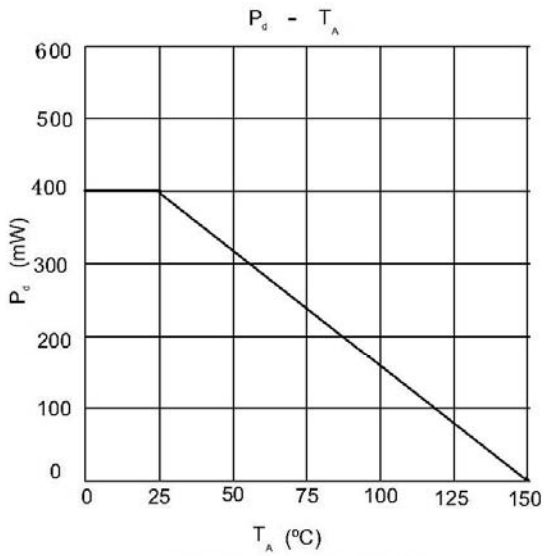
Parameter	Symbol	BAV19W	BAV20W	BAV21W	Unit
Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	120	200	250	V
Working Peak Reverse Voltage DC Blocking Voltage	V <sub>RWM</sub> V <sub>R</sub>	100	150	200	V
RMS Reverse Voltage	V <sub>R(RMS)</sub>	71	106	141	V
Forward Continuous Current	I <sub>FM</sub>	400			mA
Average Rectified Output Current	I <sub>O</sub>	200			mA
Non-Repetitive Peak Forward Surge Current	I <sub>FSM</sub>	2.5 @ t=1.0ms			A
		0.5 @ t=1.0s			A
Power Dissipation	P <sub>D</sub>	400			mW
Thermal Resistance Junction to Ambient Air	R <sub>θJA</sub>	500			°C/W
Operating and Storage Temperature Range	T <sub>J</sub> , T <sub>STG</sub>	-65 to +150			°C

**Electrical Characteristics**

(T<sub>A</sub>=25°C unless otherwise noted)

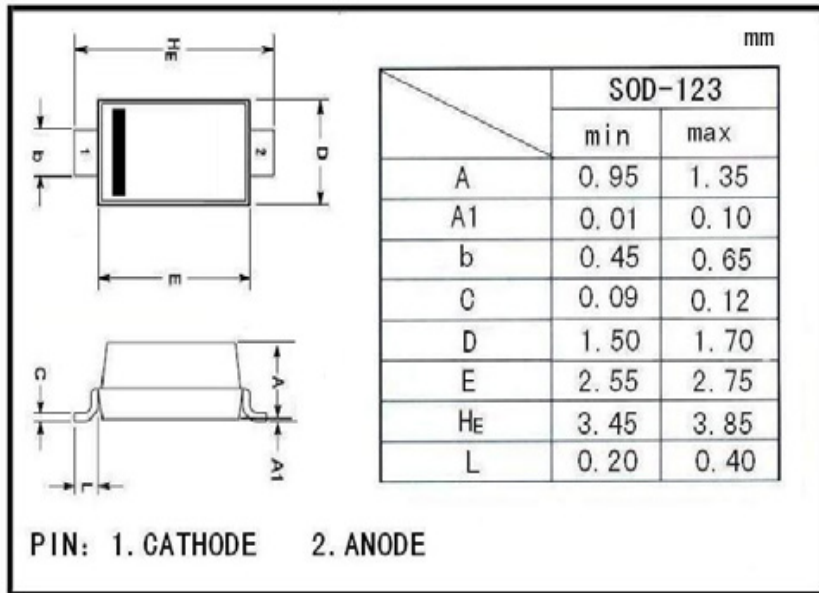
Parameter	Symbol	Test Condition	Rating		Unit	
			Min	Max		
Reverse Breakdown Voltage	V <sub>(BR)R</sub>	I <sub>R</sub> =100μA	BAV19W	120	-	V
			BAV20W	200	-	
			BAV21W	250	-	
Forward Voltage	V <sub>FM</sub>	I <sub>F</sub> =100mA	-	1.0	V	
		I <sub>F</sub> =200mA	-	1.25	V	
Peak Reverse Current @ Rated DC Blocking Voltage	I <sub>RM</sub>	T <sub>J</sub> =25°C V <sub>R</sub> =V <sub>RWM</sub>	-	100	nA	
		T <sub>J</sub> =100°C V <sub>R</sub> =V <sub>RWM</sub>	-	15	μA	
Reverse Recovery Time	t <sub>rr</sub>	I <sub>F</sub> =I <sub>R</sub> =30mA, I <sub>rr</sub> =0.1xI <sub>R</sub> , R <sub>i</sub> =100Ω	-	50	ns	
Total Capacitance	C <sub>T</sub>	V <sub>R</sub> =0, f=1.0MHz	-	5.0	pF	

**Typical Electrical Characteristic Curves**



**Package Outline Dimensions**

**SOD-123**



**Marking Information**

Type	BAV19W	BAV20W	BAV21W
Marking	A8	T2	T3