

RoHS Compliant Product
A suffix of "-C" specifies halogen & lead-free

FEATURES

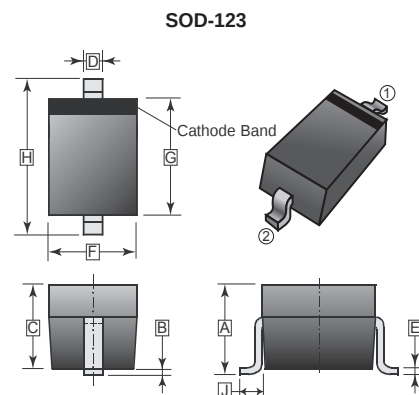
- Low Reverse Current.
- Surface Mount Package Ideally Suited for Automatic Insertion.
- Fast Switching Speed.
- For General Purpose Switching Applications.

MARKING

- BAV19P: A8
- BAV20P: T2
- BAV21P: T3

PACKAGE INFORMATION

Package	MPQ	Leader Size
SOD-123	3K	7 inch



REF.	Millimeter	REF.	Millimeter
	Min. Max.		Min. Max.
A	0.94 1.35	F	1.40 1.80
B	0.10 REF.	G	2.54 2.85
C	1.00 1.30	H	3.55 3.86
D	0.30 0.78	J	0.50 REF.
E	0.08 0.25		

1 CATHODE 2 ANODE

ABSOLUTE MAXIMUM RATINGS ($T_A=25^{\circ}\text{C}$ unless otherwise specified)

Parameter	Symbol	Ratings			Unit
		BAV19P	BAV20P	BAV21P	
Non-Repetitive Peak Reverse Voltage	V_{RM}	120	200	250	V
Peak Repetitive Peak Reverse Voltage	V_{RRM}	100	150	200	V
Working Peak Reverse Voltage	V_{RWM}				
RMS Reverse Voltage	$V_{R(RMS)}$	71	106	141	V
Average Rectified Output Current	I_O	200			mA
Non-Repetitive Peak Forward Surge Current	I_{FSM}	1.7			A
$t=8.3\text{ms}$					
Power Dissipation	P_D	500			mW
Thermal Resistance Junction to Ambient Air	$R_{\theta JA}$	250			$^{\circ}\text{C} / \text{W}$
Junction, Storage Temperature	T_J, T_{STG}	150, -55~150			$^{\circ}\text{C}$

ELECTRICAL CHARACTERISTICS ($T_A=25^{\circ}\text{C}$ unless otherwise specified)

Parameters	Symbol	Min.	Typ.	Max.	Unit	Test Conditions
Forward Voltage	V_F	-	-	1	V	$I_F=100\text{mA}$
		-	-	1.25		$I_F=200\text{mA}$
Reverse Leakage Current	I_R	-	-	0.1	uA	$V_R=100\text{V}$
		-	-	0.1		$V_R=150\text{V}$
		-	-	0.1		$V_R=200\text{V}$
Total capacitance	C_{tot}	-	-	5	pF	$V_R=0, f=1\text{MHz}$
Reverse Recovery Time	T_{RR}	-	-	50	nS	$I_F=I_R=30\text{mA}, I_{RR}=0.1 \times I_R, R_L=100\Omega$

RATINGS AND CHARACTERISTIC CURVES

