

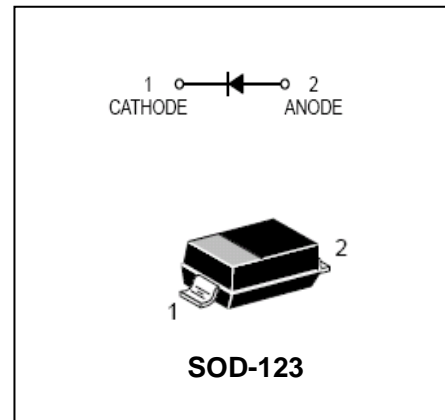
## Surface mount switching diode

### FEATURES

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

### APPLICATIONS

- Surface mount fast switching diode.



### MAXIMUM RATING @ Ta=25°C unless otherwise specified

Characteristic	Symbol	BAV19W	BAV20W	BAV21W	Unit
Non-Repetitive Peak Reverse Voltage	$V_{RM}$	120	200	250	V
Peak Repetitive Reverse Voltage	$V_{RRM}$				
Working Peak Reverse Voltage	$V_{RWM}$	100	150	200	V
DC Reverse Voltage	$V_R$				
RMS Reverse Voltage	$V_{R(RMS)}$	71	106	141	V
Average Rectified Output Current	$I_o$	200			mA
Non-Repetitive Peak Forward Surge Current	$I_{FSM}$				A
@t=1.0 $\mu$ s					
@t=1.0 s	0.5				
Power Dissipation	$P_d$	250			mW
Thermal Resistance Junction to Ambient Air	$R_{\theta JA}$	500			°C/W
Operating and Storage Temperature Range	$T_j, T_{STG}$	-65 to +150			°C

## PACKAGE OUTLINE

Characteristic	Symbol	Min	Max	Unit	Test Condition
Reverse Breakdown Voltage BAV19W BAV20W BAV21W	$V_{(BR)R}$	120 200 250		V	$I_R=100\mu A$
Maximum Forward Voltage	$V_{F1}$ $V_{F2}$	-	1.0 1.25	V	$I_F=100mA$ $I_F=200mA$
Reverse Current BAV19W BAV20W BAV21W	$I_R$	-	0.1	$\mu A$	$V_R=100V$ $V_R=150V$ $V_R=200V$
Junction Capacitance	$C_j$	-	5.0	pF	$V_R=0, f=1.0MHz$
Reverse Recovery Time	$t_{rr}$	-	50	ns	$I_F=I_R=30mA,$ $I_{rr}=0.1 \times I_R, R_L=100\Omega$

## TYPICAL CHARACTERISTICS @ $T_a=25^\circ C$ unless otherwise specified

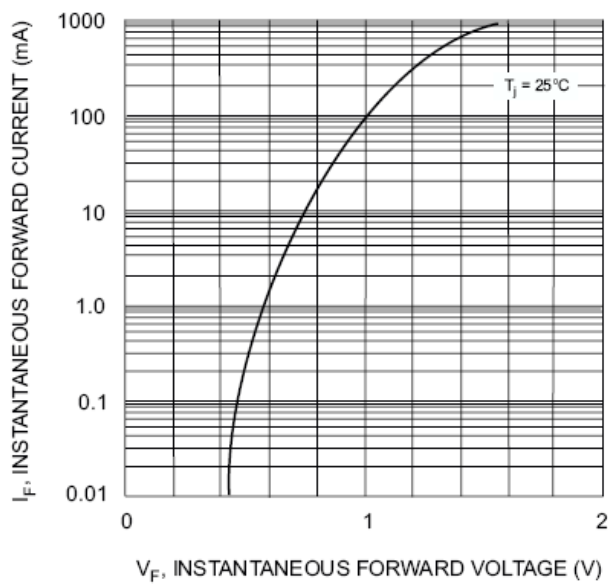


Fig. 1 Forward Characteristics

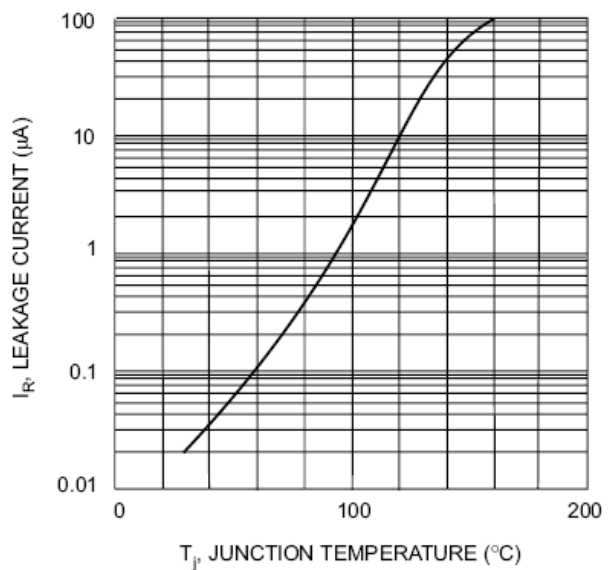


Fig. 2 Leakage Current vs Junction Temperature

## PACKAGE OUTLINE

Plastic surface mounted package

SOD-123

