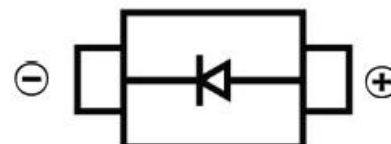


Kingtronics®**BAV21W**
SWITCHING DIODE**FEATURES**

High Conductance
Fast Switching
Small Surface Mount device
For General Purpose Switching Applications

MECHANICAL DATA

Case: SOD-123
Case Material: Molded Plastic. UL flammability
Classification Rating: 94V-0
Moisture Sensitivity: Level 1 per J-STD-020
Weight: 0.005 grams (approximate)

SOD-123**MAXIMUM RATINGS ($T_A = 25^\circ\text{C}$ unless otherwise noted)**

PARAMETER	SYMBOL	VALUE	UNIT
Non-Repetitive Peak Reverse Voltage	V_{RM}	250	V
DC Blocking Reverse Voltage	V_R	200	V
RMS Reverse Voltage	$V_{R(RMS)}$	141	V
Average Rectified Output Current	I_O	200	mA
Non-Repetitive Peak Forward Surge Current @ $t@=8.3\text{ms}$	I_{FSM}	2.0	A
Power Dissipation	P_D	500	mW
Thermal Resistance From Junction To Ambient	$R_{\theta JA}$	250	$^\circ\text{C}/\text{W}$
Junction Temperature	T_J	150	$^\circ\text{C}$
Storage Temperature	T_{STG}	-55 ~+150	$^\circ\text{C}$

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

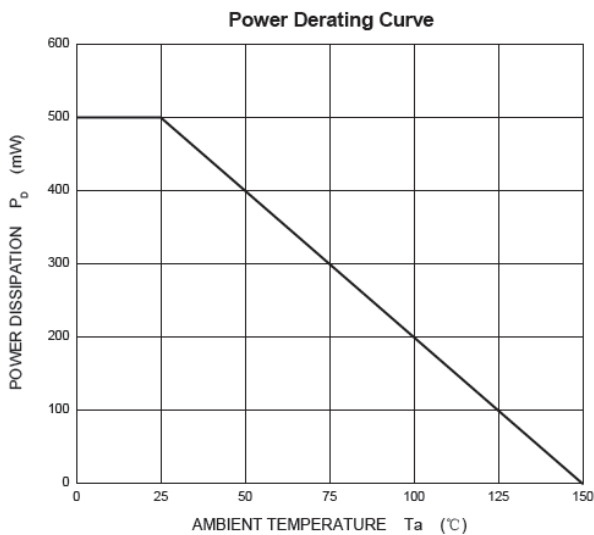
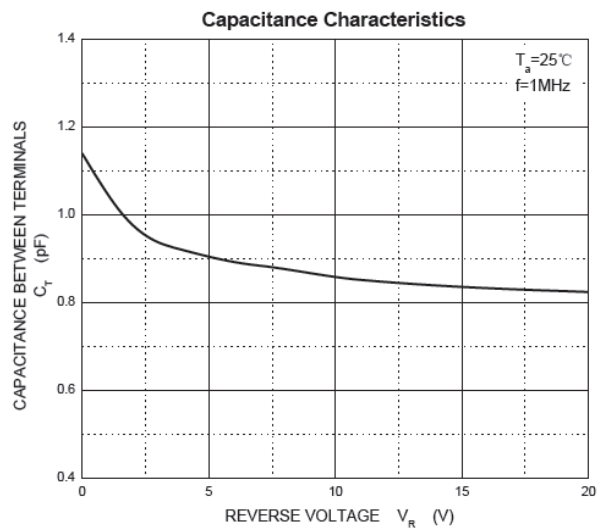
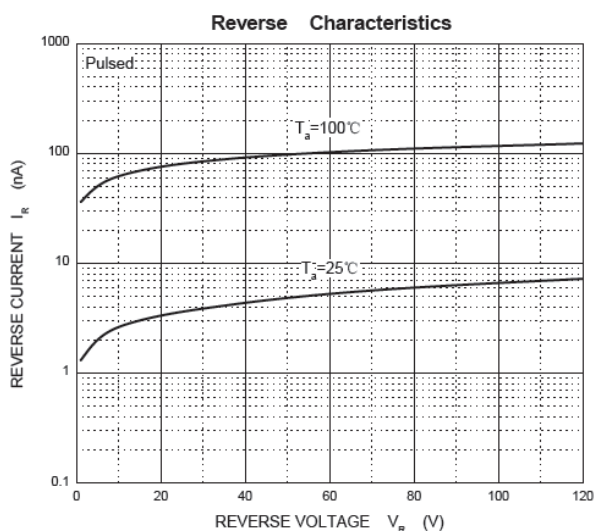
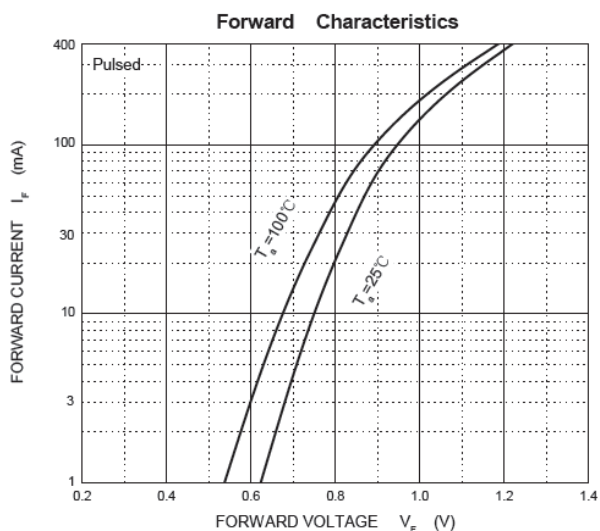
PARAMETER	SYMBOL	MIN.	TYP	MAX.	UNIT	CONDITION
Forward Voltage	V			1.0 1.25		$I_F=100\text{mA}$ $I_F=200\text{mA}$
Reverse current	V_R			0.1	μA	$V_R=200\text{V}$
Diode capacitance	C_D			5	pF	$V_R=0\text{V}, f=1\text{MHz}$
Reverse recovery time	T_{RR}			4	nS	$I_F=I_R=30\text{mA}, I_{tr}=0.1X I_R, R_L=100\Omega$

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BAV21W SWITCHING DIODE

Typical Characteristics

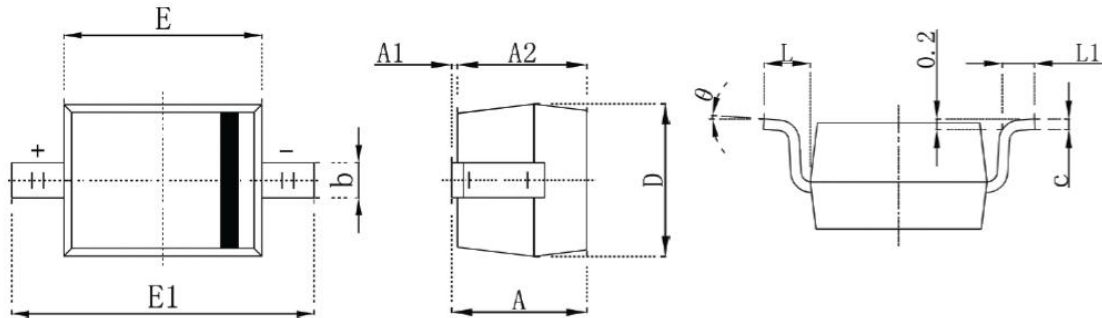


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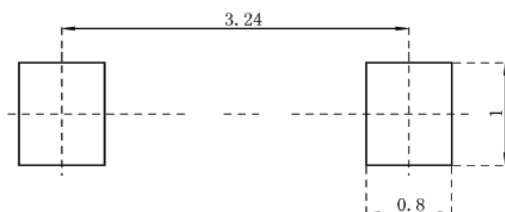
BAV21W SWITCHING DIODE

SOD-123 Package Outline Dimensions



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min.	Max.	Min.	Max.
A	1.050	1.250	0.041	0.049
A1	0.000	0.100	0.000	0.004
A2	1.050	1.150	0.041	0.045
b	0.450	0.650	0.018	0.026
c	0.080	0.150	0.003	0.006
D	1.500	1.700	0.059	0.067
E	2.600	2.800	0.102	0.110
E1	3.550	3.850	0.140	0.152
L	0.500REF		0.020 REF	
L1	0.250	0.450	0.010	0.018
θ	0°	8°	0°	8°

SOD-123 Suggested Pad Layout



Note:

1. Controlling dimension: in millimeters
2. General tolerance: $\pm 0.05\text{mm}$
3. The pad layout is for reference purposes only

Note: Specifications are subject to change without notice.

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