

Switching Diodes

350mW SOD-123

BAV16W

MERITEK

FEATURE

- Power Dissipation: 350mW
- 100V Peak Reverse Voltage
- 150mA Average Forward Current
- Fast Switching Speed
- Electrically Identical to Standard JEDEC
- High Conductance



MECHANICAL DATA

- Case: SOD-123, Molded Plastic
- Terminals: Solderable per MIL-STD, Method 2026
- Polarity: Color Band Denotes Cathode End



MAXIMUM RATING



Parameter	Symbol	Value	Units
Reverse Voltage	V_R	75	V
Peak Reverse Voltage	V_{RM}	100	V
RMS Voltage	V_{RMS}	50	V
Maximum DC Blocking Voltage	V_{DC}	75	V
Maximum Average Forward Current at $T_A=25^{\circ}C$	I_{AV}	150	mA
Peak Forward Surge Current, 1.0 μ s	I_{FSM}	4.0	A
Power Dissipation Derate above 25 $^{\circ}C$	P_{TOT}	350	mW
Maximum Forward Voltage at $I_F=10mA$	V_F	0.855	V
Maximum DC Reverse Current at $V_R=75V$, $T_J=25^{\circ}C$	I_R	1.0	μ A
Junction Capacitance	C_J	2.0	pF
Maximum Reverse Recovery	T_{RR}	6.0	ns
Typical Thermal Resistance	$R_{\theta JA}$	450	$^{\circ}C/W$
Operating Junction Temperature Range	T_J	-55~150	$^{\circ}C$

Note:

1. $T_A = 25^{\circ}C$ unless otherwise specified.
2. C_J at $V_R=0$, $f=1MHz$.
3. From $I_F=10mA$ to $I_R=1mA$, $V_R=6V$, $R_L=100\Omega$.

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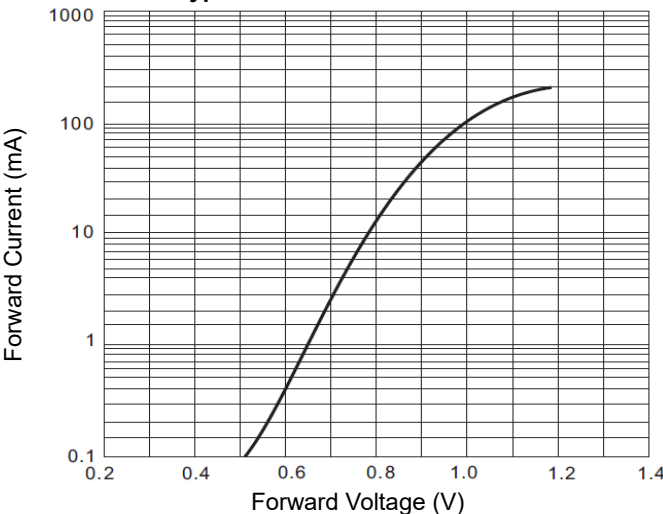
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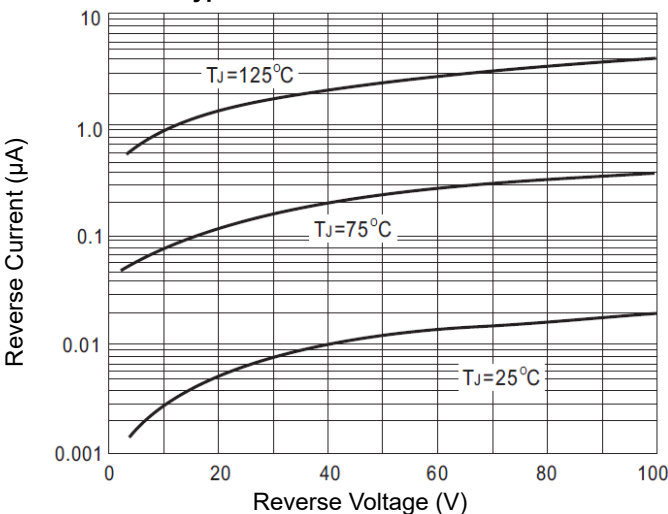
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CHARACTERISTIC CURVES

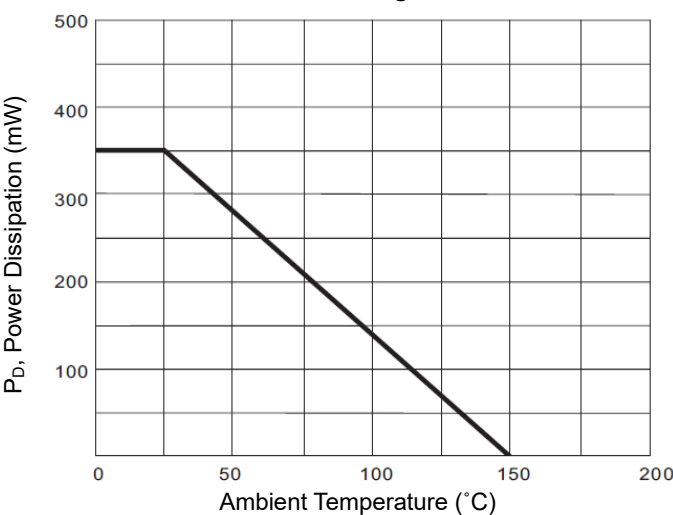
Typical Forward Characteristics



Typical Reverse Characteristics



Power Derating Curve



Switching Diodes

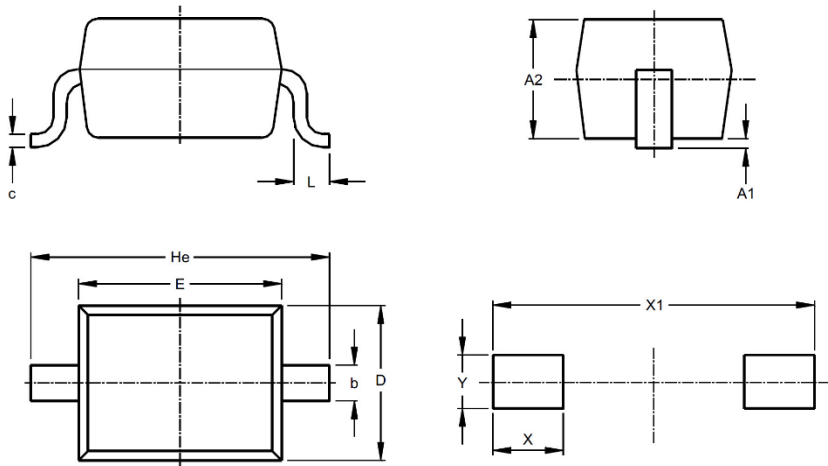
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DIMENSIONS

SOD-123	Min (mm)	Max (mm)
A1	-	0.12
A2	0.95	1.35
b	0.50	0.70
C	-	0.20
D	1.40	1.80
E	2.50	2.80
He	3.60	3.90
L	0.40	-
X	0.97	
X1	4.25	
Y	1.22	



*Specifications subject to change without notice.