



DATA SHEET

BAV16W

SURFACE MOUNT SWITCHING DIODES

VOLTAGE 100 Volts **POWER** 350 mWatts

SOD-123

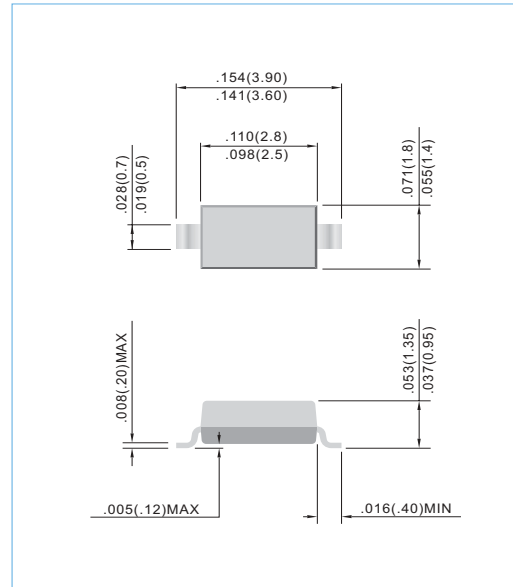
Unit: inch (mm)

FEATURES

- Fast switching Speed.
- Electrically Identical to Standard JEDEC
- High Conductance
- Surface Mount Package Ideally Suited for Automatic Insertion.
- Both normal and Pb free product are available :
Normal : 80~95% Sn, 5~20% Pb
Pb free: 98.5% Sn above

MECHANICAL DATA

- Case: SOD-123 plastic case.
- Terminals : Solderable per MIL-STD-202, Method 208
- Standard packaging: 8mm tape
- Weight: approximately 0.0104 g
- Marking: A6



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T_J=25°C unless otherwise noted)

PARAMETER	SYMBOL	BAV16W	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°C	I _F	150	mA
Peak Forward Surge Current, 1.0us	I _{FSM}	2	A
Power Dissipation Derate Above 25°C	P _{TOT}	350	mW
Maximum Forward Voltage	V _F	0.855 / 0.01A	V
Maximum DC Reverse Current at Rated DC Blocking Voltage T _J = 25°C	I _R	1.0 @ 75V	uA
Junction Capacitance (Notes1)	C _J	2.0	pF
Maximum Reverse Recovery (Notes2)	T _{RR}	6.0	ns
Maximum Thermal Resistance	R _{θJA}	450	°C /W
Storage Temperature Range	T _J	-55 to +150	°C

NOTE:

1. C_J at V_R=0, f=1MHZ
2. From I_F=10mA to I_R=1mA, V_R=6Volts, R_L=100Ω

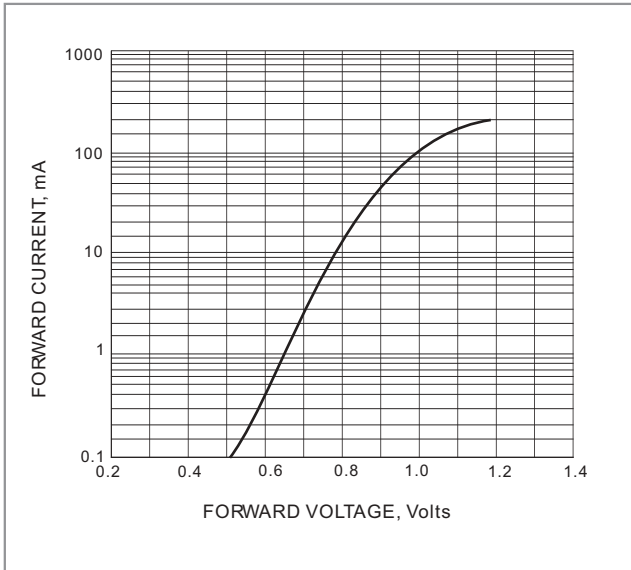


FIG. 1-TYPICAL FORWARD CHARACTERISTIC

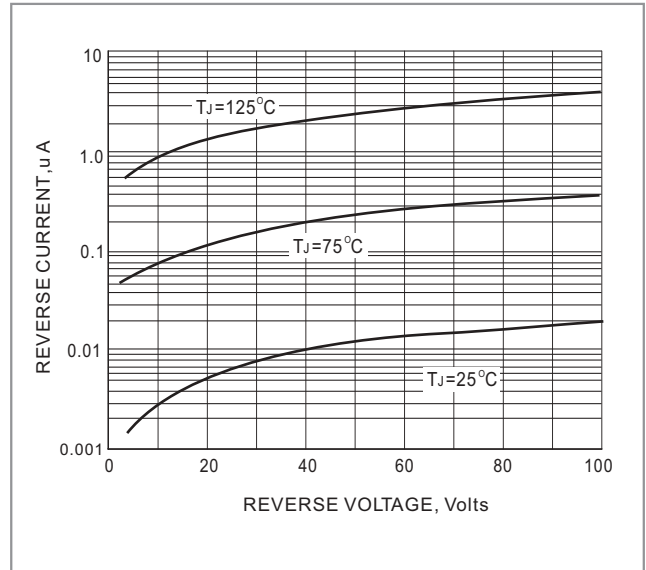


FIG. 2-TYPICAL REVERSE CHARACTERISTICS

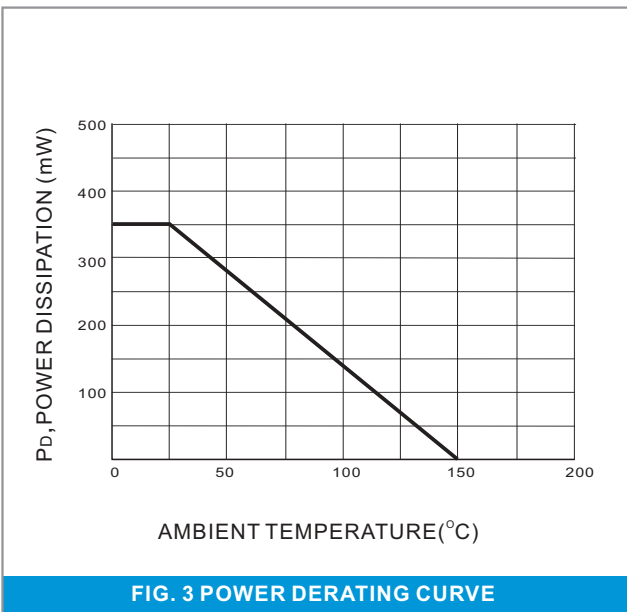


FIG. 3 POWER DERATING CURVE