DATA SHEET

BAV16W

SURFACE MOUNT SWITCHING DIODES

VOLTAGE 100 Volts **POWER** 350 mWatts

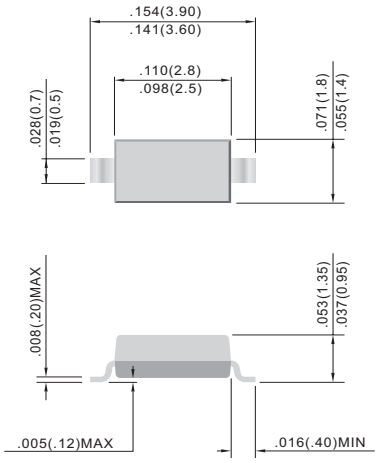
FEATURES

- Fast switching Speed.
- Electrically Identical to Standerd JEDEC
- High Conductance
- Surface Mount Package Ideally Suited for Automatic Insertion.
- In compliance with EU RoHS 2002/95/EC directives

MECHANICAL DATA

- Case: SOD-123 plastic case.
- Terminals : Solderable per MIL-STD-750,Method 2026
- Standard packaging: 8mm tape
- Weight: approximately 0.0104 g
- Marking: A6

SOD-123 Unit: inch (mm)



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 Ta=25°C	I_{AV}	150	mA
Peak Forward Surge Current, 1.0us	I_{FSM}	4.0	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)	CJ	2.0	pF
Maximum Reverse Recovery (Notes2)	T_{RR}	6.0	ns
Typical Thermal Resistance	RθJA	450	°C /W
Storage Temperature Range	T_J	-55 to +150	°C

NOTE:

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

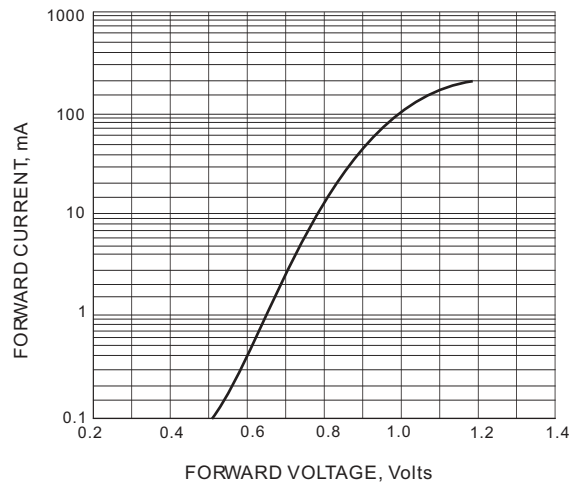


FIG. 1-TYPICAL FORWARD CHARACTERISTIC

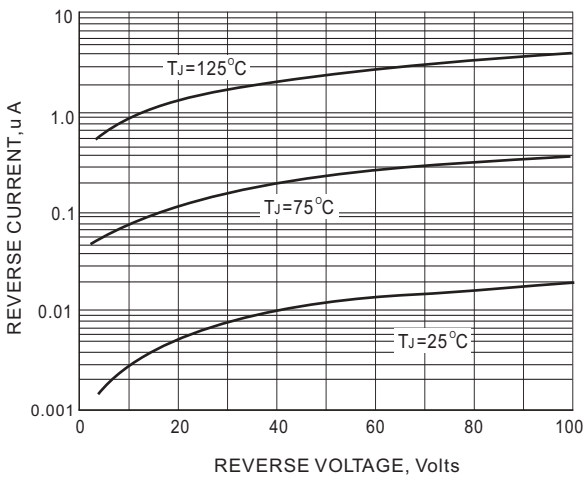


FIG. 2-TYPICAL REVERSE CHARACTERISTICS

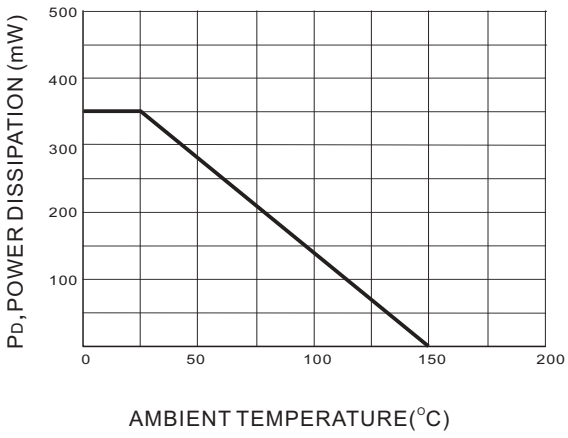
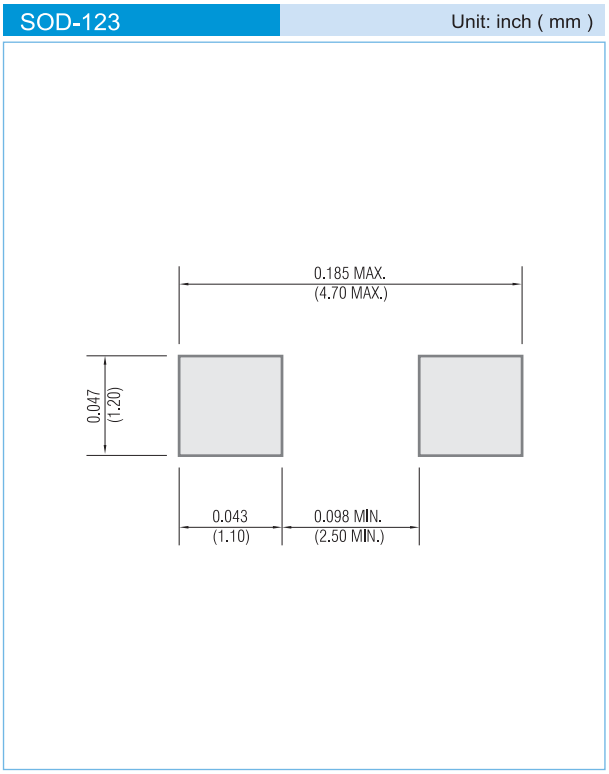


FIG. 3 POWER DERATING CURVE

MOUNTING PAD LAYOUT

SOD-123 Unit: inch (mm)



ORDER INFORMATION

- Packing information

  T/R - 10K per 13" plastic Reel

  T/R - 3K per 7" plastic Reel

LEGAL STATEMENT

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