



# BAW56TB,BAV70TB,BAV99TB,BAL99TB

## SURFACE MOUNT SWITCHING DIODES

**VOLTAGE** 100Volts **POWER** 200mWatts

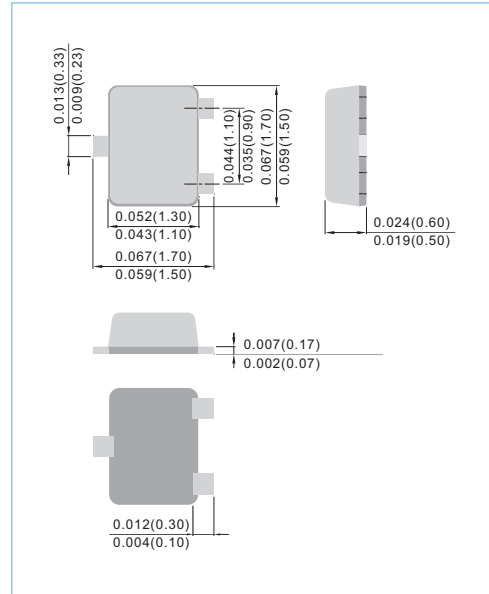
**SOT-523** Unit : inch(mm)

### FEATURES

- Fast switching speed.
- Surface mount package Ideally Suited for Automatic insertion
- Electrically Identical to Standard JEDEC
- High Conductance
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### MECHANICAL DATA

Case : SOT-523, Plastic  
 Terminals : Solderable per MIL-STD-750, Method 2026  
 Approx. Weight : 0.002gram



## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. For capacitive load, derate current by 20%.

PARAMETER	SYMBOL	BAW56TB	BAV70TB	BAV99TB	BAL99TB	UNITS
Marking Code		LB	LC	LD	LF	
Reverse Voltage	V <sub>R</sub>	75				V
Peak Reverse Voltage	V <sub>RM</sub>	100				V
Rectified Current (Average), Half Wave Rectification with Resistive Load and f >=50 Hz	I <sub>O</sub>	150 75				mA
Peak Forward Surge Current,1.0us	I <sub>FSM</sub>	4.0				A
Power Dissipation Derate Above 25°C	P <sub>TOT</sub>	200				mW
Maximum Forward Voltage	V <sub>F</sub>	0.715 @ I <sub>F</sub> =0.001A 0.855 @ I <sub>F</sub> =0.01A 1.0 @ I <sub>F</sub> =0.05A 1.25 @ I <sub>F</sub> =0.15A				V
Maximum DC Reverse Current at 25V 75V	I <sub>R</sub>	0.03 2.5				μA
Maximum Junction Capacitance( Notes 1)	C <sub>J</sub>	1.5				pF
Maximum Reverse Recovery Time (Notes 2)	T <sub>RR</sub>	4.0				ns
Typical Maximum Thermal Resistance	R <sub>θJA</sub>	833				°C / W
Junction Temperature Range	T <sub>J</sub>	-55 to +150				°C
Circuit Figure		Common Anode	Common Cathode	Series	Single(Alt)	

**NOTE:**

1. C<sub>J</sub> at V<sub>R</sub>=0, f=1MHZ
2. From I<sub>F</sub>=10mA to I<sub>R</sub>=1mA, V<sub>R</sub>=6Volts, R<sub>L</sub>=100Ω

