



BAW56TB,BAV70TB,BAV99TB,BAL99TB

SURFACE MOUNT SWITCHING DIODES

VOLTAGE 100Volts POWER 200mWatts

FEATURES

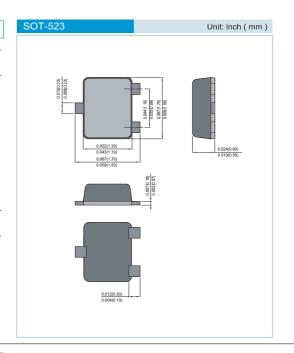
- · Fast switching speed.
- Surface mount package Ideally Suited for Automatic insertion
- Electrically Identical to Standard JEDEC
- High Conductance
- In compliance with EU RoHS 2002/95/EC directives

MECHANICAL DATA

Case: SOT-523, Plastic

Terminals: Solderable per MIL-STD-750, Method 2026

Approx. Weight: 0.002gram



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

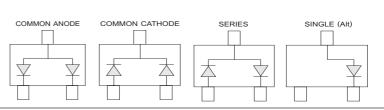
Ratings at 25°C ambient temperature unless otherwise specified. For capacitive load, derate current by 20%.

PARAMETER	SYMBOL	BAW56TB	BAV70TB	BAV99TB	BAL99TB	UNITS
Marking Code		LB	LC	LD	LF	
Reverse Voltage	Vr	75				V
Peak Reverse Voltage	Vrm	100			V	
Rectified Current (Average), Half Wave Single Diode Rectification with Resistive Load and f >=50 Hz Double Diode	lo	150 75			mA	
Peak Forward Surge Current,1.0us	IFSM	4.0				А
Power Dissipation Derate Above 25°C	Ртот	200			mW	
Maximum Forward Voltage	VF	0.715 @ IF=0.001A 0.855 @ IF=0.01A 1.0 @ IF=0.05A 1.25 @ IF=0.15A			V	
Maximum DC Reverse Current at 25V 75V	IR	0.03 2.5			μΑ	
Maximum Junction Capacitance(Notes 1)	Сı	1.5			pF	
Maximum Reverse Recovery Time (Notes 2)	Trr	4.0				ns
Typical Maximum Thermal Resistance	RөJA	833				°C / W
Junction Temperature Range	TJ	-55 to +150				°C
Circuit Figure		Common Anode	Common Cathode	Series	Single(Alt)	

NOTE:

1. CJ at VR=0, f=1MHZ

2.From I_F=10mA to I_R=1mA, V_R=6Volts, R_L=100 Ω

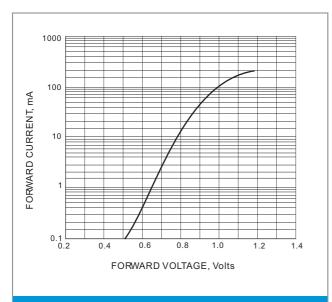


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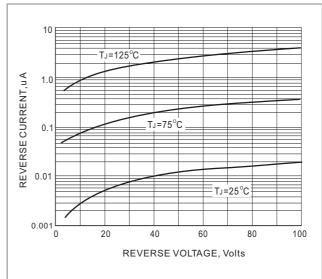
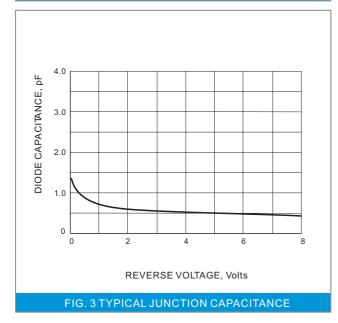


FIG. 1-TYPICAL FORWARD CHARACTERISTIC





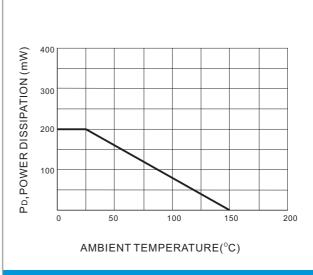


FIG. 4 POWER DERATING CURVE

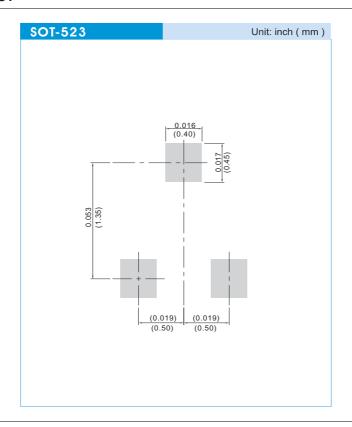
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MOUNTING PAD LAYOUT



ORDER INFORMATION

Packing information

T/R - 4K per 7" plastic Reel

LEGAL STATEMENT

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