

SURFACE MOUNT SWITCHING DIODES

VOLTAGE 100Volt POWER 200mWatt

FEATURES

- · Fast switching speed.
- · Surface mount package Ideally Suited for Automatic insertion
- · Electrically Identical to Standard JEDEC
- · High Conductance
- · AEC-Q101 qualified
- Lead free in compliance with EU RoHS 2.0
- · Green molding compound as per IEC 61249 standard

MECHANICAL DATA

· Case: SOT-523, Plastic

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

• Approx. Weight: 0.002 grams



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

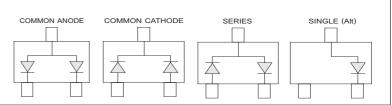
Ratings at 25°C ambient temperature unless otherwise specified. For capacitive load, derate current by 20%.

PARAMETER	SYMBOL	BAW56TB-AU BAV70TB-AU BAV99TB-AU BAL99TB-AU	UNITS
Reverse Voltage	VR	75	V
Peak Reverse Voltage	VRM	100	V
Rectified Current (Average), Half Wave Rectification with Resistive Load and f >= 50Hz	lo	150	mA
Peak Forward Surge Current, 1 us	IFSM	4	Α
Power Dissipation Derate Above 25 °C	Ртот	200	mW
Maximum Forward Voltage	VF	0 . 7 15 @ IF = 0 . 0 0 1 A 0 . 8 5 5 @ IF = 0 . 0 1 A 1 . 0 @ IF = 0 . 0 5 A 1 . 2 5 @ IF = 0 . 15 A	V
Maximum DC Reverse Current a t 25V 75V	lR	0.03 2.5	μА
Maximum Junction Capacitance (Notes 1)	CJ	1.5	pF
Maximum Reverse Recovery Time (Notes 2)	TRR	4	ns
Typical Maximum Thermal Resistance	RөJA	833	°C / W
Junction Temperature Range	TJ	- 55 to + 150	°C
Circuit Figure		Common Common Series Single (Alt)	

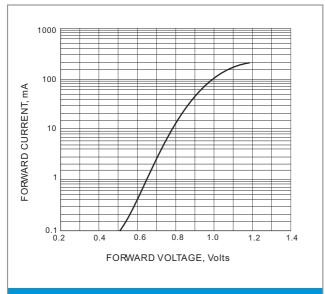
NOTE:

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

2.From Ir=10mA to Ir=1mA, Vr=6Volts, RL=100 Ω







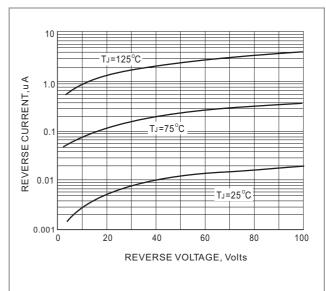
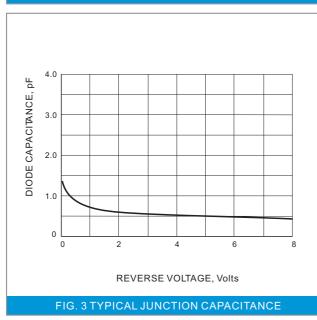
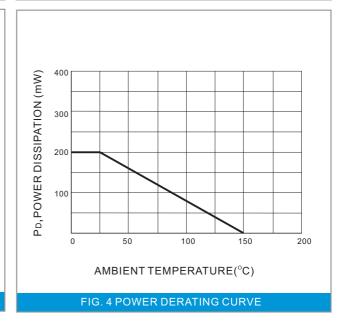


FIG. 2-TYPICAL REVERSE CHARACTERISTICS

FIG. 1-TYPICAL FORWARD CHARACTERISTIC



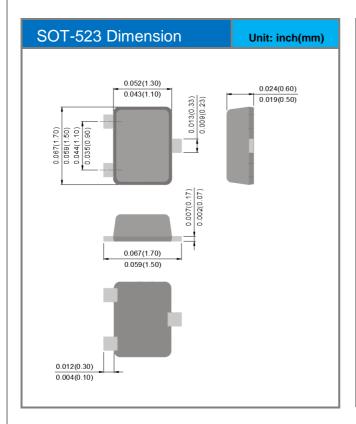


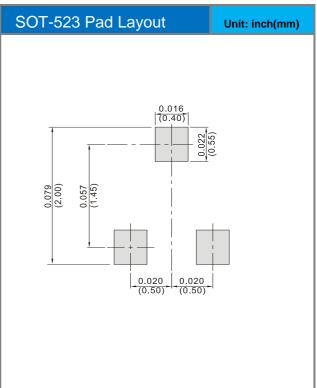


Product and Packing Information

Part No.	Package Type	Packing Type	Marking
BAW56TB-AU	SOT-523	4K pcs / 7" reel	LB
BAV70TB-AU	SOT-523	4K pcs / 7" reel	LC
BAV99TB-AU	SOT-523	4K pcs / 7" reel	LD
BAL99TB-AU	SOT-523	4K pcs / 7" reel	LF

Packaging Information & Mounting Pad Layout







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