

### BAW56-AU / BAV70-AU / BAV99-AU / BAL99-AU

### SURFACE MOUNT SWITCHING DIODES

100 Volt POWER 250mWatt

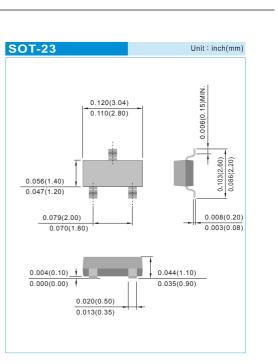
#### FEATURES

VOLTAGE

- · 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**

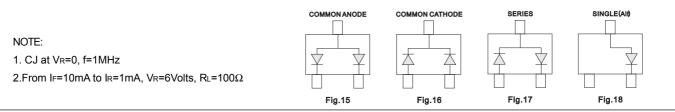
- · Case: SOT-23, Plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- Apporx. Weight: 0.0003 ounce, 0.0084 gram



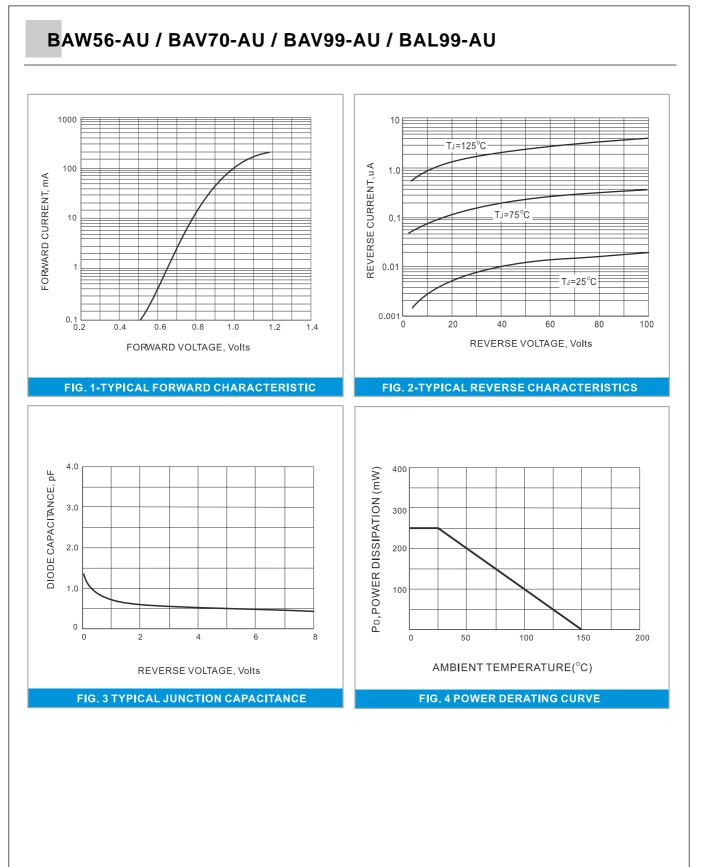
#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

PARAMETER	SYMBOL	BAW56-AU	BAV70-AU	BAV99-AU	BAL99-AU	UNITS
Marking Code	-	JC	JA	JB	JF	-
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 $\geq$ 50 Hz	I o	150				mA
Peak Forward Surge Current,0.001ms	I <sub>FSM</sub>	4.0				А
Power Dissipation Derate Above 25°C	Ρ <sub>τοτ</sub>	250				mW
Maximum Forward Voltage	V <sub>F</sub>	0.715 @ I F=1mA 0.855 @ I F=10mA 1.0 @ I F=50mA 1.25 @ I F=150mA				V
Maximum DC Reverse Current at 25V 75V	I <sub>R</sub>	0.03 2.5				μA
Maximum Junction Capacitance (Notes 1)	C」	1.5				рF
Maximum Reverse Recovery Time (Notes 2)	t <sub>rr</sub>	4.0				ns
Typical Thermal Resistance	R <sub>eja</sub> R <sub>ejc</sub>	360 205				°C / W
Junction Temperature Range	TJ	-55 to +150				°C
Circuit Figure	-	Common Anode	Common Cathode	Series	Single(Alt)	-

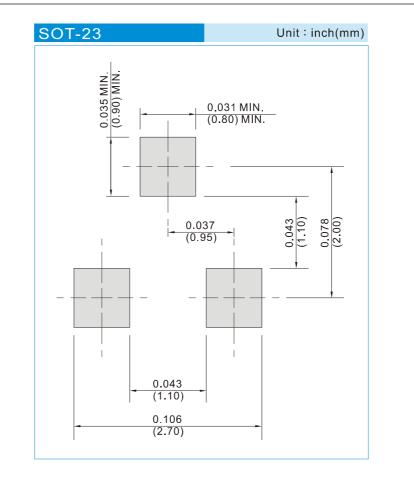








#### MOUNTING PAD LAYOUT



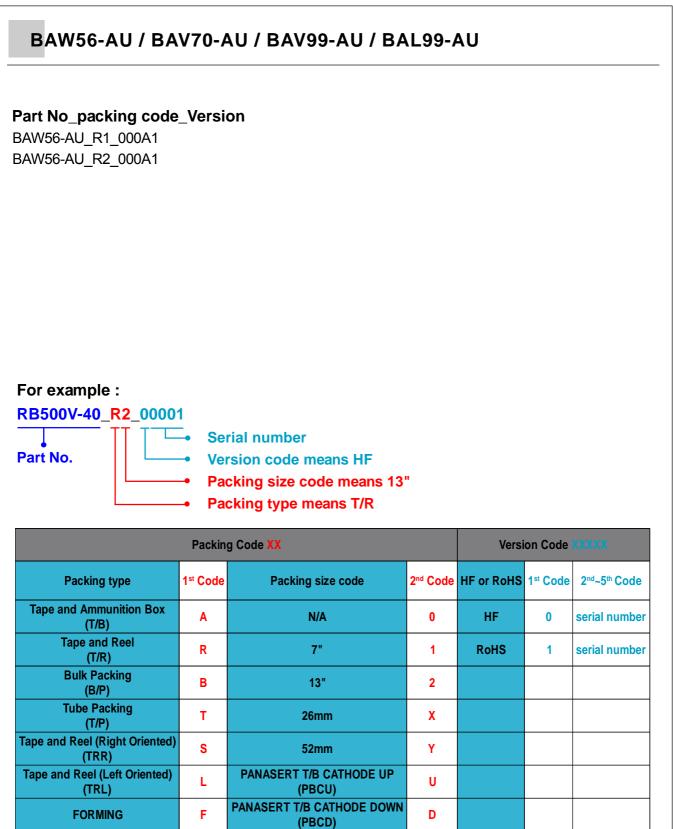
#### **ORDER INFORMATION**

Packing information

T/R - 12K per 13" plastic Reel

T/R - 3K per 7" plastic Reel







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