



SURFACE MOUNT SWITCHING DIODES

VOLTAGE 100Volt POWER 200mWatt

FEATURES

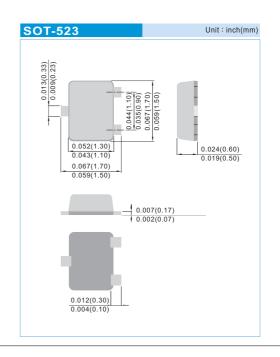
- · Fast switching speed.
- · Surface mount package Ideally Suited for Automatic insertion
- Electrically Identical to Standard JEDEC
- · High Conductance
- Lead free in compliance with EU RoHS 2011/65/EU directive
- Green molding compound as per IEC61249 Std. . (Halogen Free)

MECHANICAL DATA

· Case: SOT-523, Plastic

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

· Approx. Weight: 0.00007 ounces, 0.002 grams



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

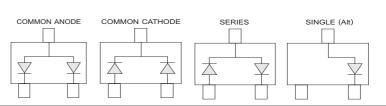
Ratings at 25°C ambient temperature unless otherwise specified. For capacitive load, derate current by 20%.

| PARAMETER | SYMBOL | BAW56TB | BAV70TB | BAV99TB | BAL99TB | UNITS |
|---|--------|--|-------------------|---------|-------------|--------|
| Marking Code | | LB | LC | LD | LF | |
| Reverse Voltage | VR | | V | | | |
| Peak Reverse Voltage | VRM | | V | | | |
| Rectified Current (Average), Half Wave Single Diode Rectification with Resistive Load and f >=50 Hz Double Diode | lo | | mA | | | |
| Peak Forward Surge Current,1.0us | IFSM | | А | | | |
| Power Dissipation Derate Above 25°C | Ртот | | 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 | | | | |
| Maximum DC Reverse Current at 25V 75V | lr | 0.03 2.5 | | | | μΑ |
| Maximum Junction Capacitance(Notes 1) | Сл | 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:

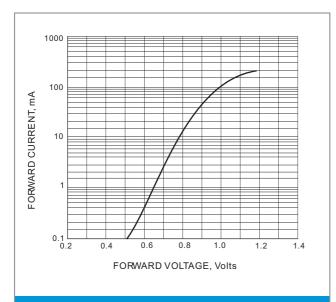
1. CJ at VR=0, f=1MHZ

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









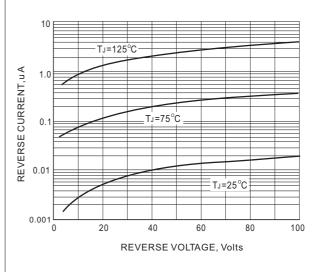
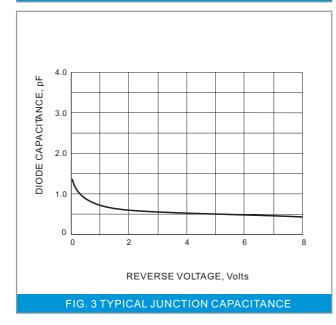
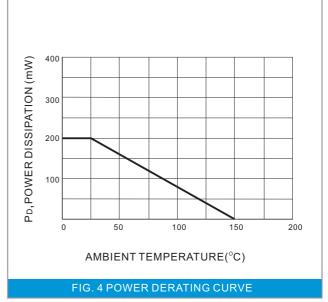


FIG. 1-TYPICAL FORWARD CHARACTERISTIC



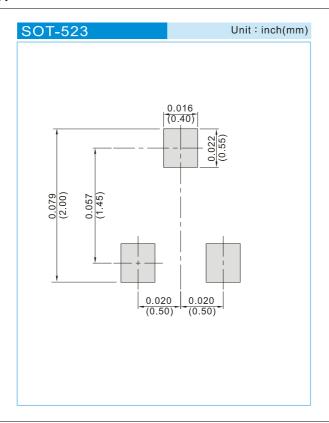








MOUNTING PAD LAYOUT



ORDER INFORMATION

· Packing information

T/R - 4K per 7" plastic Reel

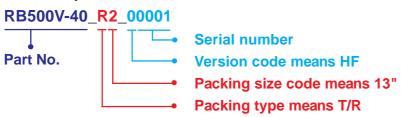




Part No_packing code_Version

BAW56TB_R1_00001

For example:



| Packing Code XX | | | | | Version Code XXXXX | | | | |
|--------------------------------------|----------------------|-----------------------------------|----------------------|------------|----------------------|---------------------------------------|--|--|--|
| Packing type | 1 st Code | Packing size code | 2 nd Code | HF or RoHS | 1 st Code | 2 nd ~5 th Code | | | |
| Tape and Ammunition Box (T/B) | Α | N/A | 0 | HF | 0 | serial number | | | |
| Tape and Reel (T/R) | R | 7" | 1 | RoHS | 1 | serial number | | | |
| Bulk Packing (B/P) | В | 13" | 2 | | | | | | |
| Tube Packing (T/P) | Т | 26mm | X | | | | | | |
| Tape and Reel (Right Oriented) (TRR) | S | 52mm | Y | | | | | | |
| Tape and Reel (Left Oriented) (TRL) | L | PANASERT T/B CATHODE UP (PBCU) | U | | | | | | |
| FORMING | F | PANASERT T/B CATHODE DOWN (PBCD) | D | | | | | | |





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