



SURFACE MOUNT SWITCHING DIODES

VOLTAGE 100Volt POWER 200mWatt

FEATURES

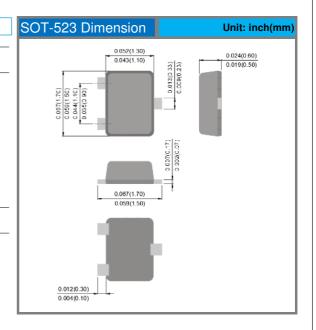
- · Fast switching speed.
- · Surface mount package Ideally Suited for Automatic insertion
- Electrically Identical to Standard JEDEC
- · High Conductance
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

MECHANICAL DATA

· Case: SOT-523, Plastic

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

· Approx. Weight: 0.002 grams



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

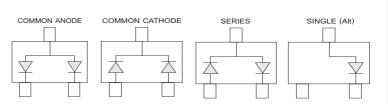
Ratings at 25°C ambient temperature unless otherwise specified. For capacitive load, derate current by 20%.

PARAMETER	SYMBOL	BAW56TB	BAV70TB	BAV99TB	BAL99TB	UNITS
Marking Code		LB	LC	LD	LF	
Reverse Voltage	Vr	75				V
Peak Reverse Voltage	VRM	100				٧
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	lr	0.03 2.5				∝A
Maximum Junction Capacitance(Notes 1)	CJ 1.5				pF	
Maximum Reverse Recovery Time (Notes 2)	Trr	4.0				ns
Typical Maximum Thermal Resistance	Reja	833				°C / W
Junction Temperature Range	TJ	-55 to +150				°C
Circuit Figure		Common Anode	Common Cathode	Series	Single(Alt)	

NOTE:

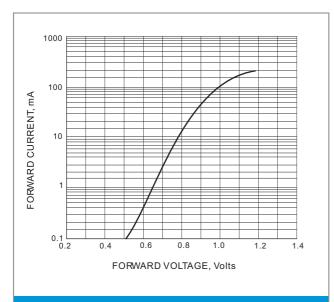
1. CJ at VR=0, f=1MHZ

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









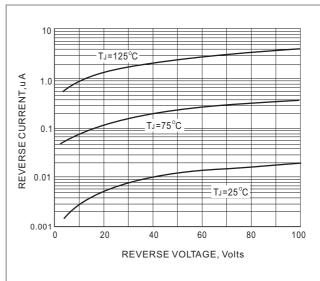
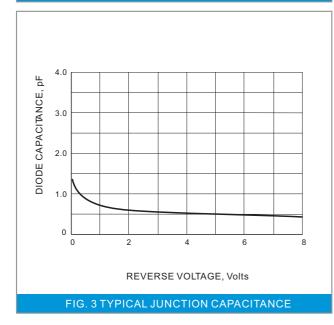
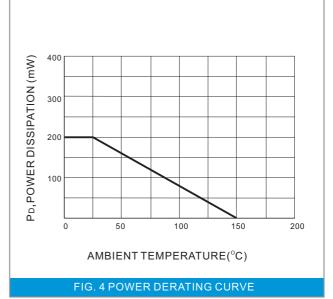


FIG. 1-TYPICAL FORWARD CHARACTERISTIC



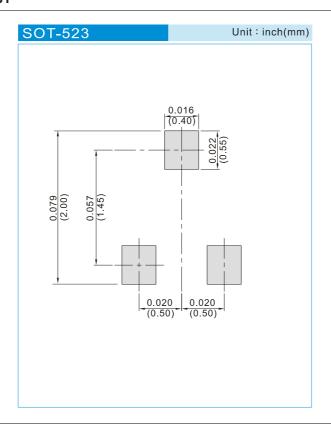








MOUNTING PAD LAYOUT



ORDER INFORMATION

· Packing information

T/R - 4K per 7" plastic Reel

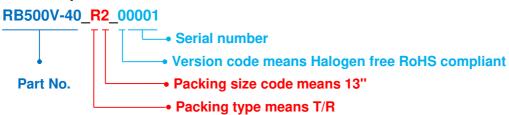




Part No._packing code_Version

BAW56TB_R1_00001

For example:



Packing Code XX			Version Code	Serial number XXXX		
Packing type	1 st Code	Packing size code	2 nd Code	HSF Level	1 st Code	2 nd ~5 th Code
Tape and Ammunition Box (T/B)	A	N/A	0	Halogen free RoHS compliant	0	serial number
Tape and Reel (T/R)	R	7"	1	RoHS compliant	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			





Disclaimer

- Reproducing and modifying information of the document is prohibited without permission from Panjit International Inc..
- Panjit International Inc. reserves the rights to make changes of the content herein the document anytime without notification. Please refer to our website for the latest document.
- Panjit International Inc. disclaims any and all liability arising out of the application or use of any product including damages incidentally and consequentially occurred.
- Panjit International Inc. does not assume any and all implied warranties, including warranties
 of fitness for particular purpose, non-infringement and merchantability.
- Applications shown on the herein document are examples of standard use and operation.
 Customers are responsible in comprehending the suitable use in particular applications.
 Panjit International Inc. makes no representation or warranty that such applications will be suitable for the specified use without further testing or modification.
- The products shown herein are not designed and authorized for equipments requiring high level of reliability or relating to human life and for any applications concerning life-saving or life-sustaining, such as medical instruments, transportation equipment, aerospace machinery et cetera. Customers using or selling these products for use in such applications do so at their own risk and agree to fully indemnify Panjit International Inc. for any damages resulting from such improper use or sale.
- Since Panjit uses lot number as the tracking base, please provide the lot number for tracking when complaining.