



SURFACE MOUNT SWITCHING DIODES

VOLTAGE 100Volt POWER 200mWatt

FEATURES

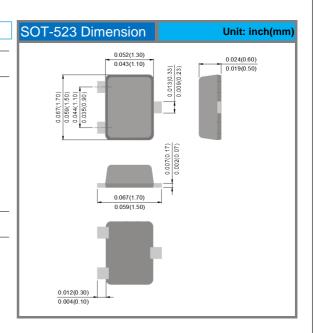
- · Fast switching speed.
- · Surface mount package Ideally Suited for Automatic insertion
- · Electrically Identical to Standard JEDEC
- · High Conductance
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

MECHANICAL DATA

· Case: SOT-523, Plastic

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

· Approx. Weight: 0.002 grams



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

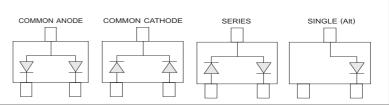
Ratings at 25°C ambient temperature unless otherwise specified. For capacitive load, derate current by 20%.

PARAMETER	SYMBOL	BAW56TB	BAV70TB	BAV99TB	BAL99TB	UNITS
Marking Code		LB	LC	LD	LF	
Reverse Voltage	Vr	75			V	
Peak Reverse Voltage	VRM		٧			
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	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				μΑ
Maximum Junction Capacitance(Notes 1)	Сì	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:

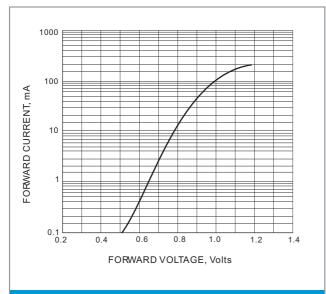
1. CJ at VR=0, f=1MHZ

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









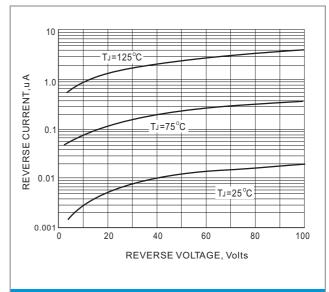
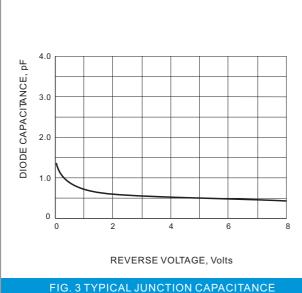


FIG. 1-TYPICAL FORWARD CHARACTERISTIC





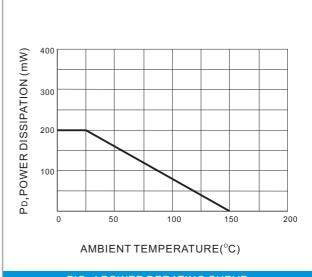
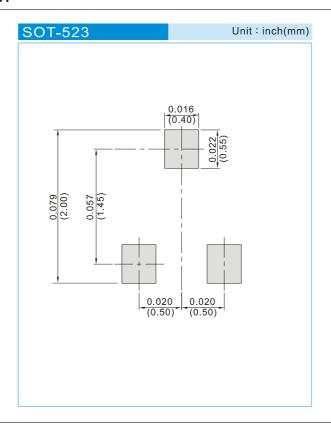


FIG. 4 POWER DERATING CURVE





MOUNTING PAD LAYOUT



ORDER INFORMATION

· Packing information

T/R - 4K per 7" plastic Reel

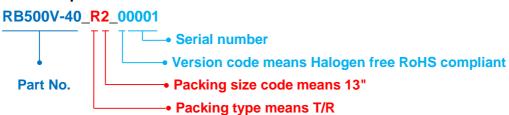




Part No._packing code_Version

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)	Α	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			





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