



# BAV99STB6

## SURFACE MOUNT SWITCHING DIODES

**VOLTAGE** 100 Volt **POWER** 200 mWatt

**SOT-563** Unit : inch(mm)

### FEATURES

- Fast switching speed.
- Surface mount package Ideally Suited for Automatic insertion
- 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-563, Plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.0001 ounces, 0.0026 grams
- Marking: TC

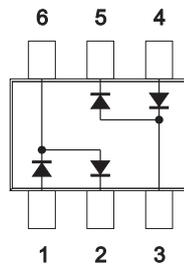
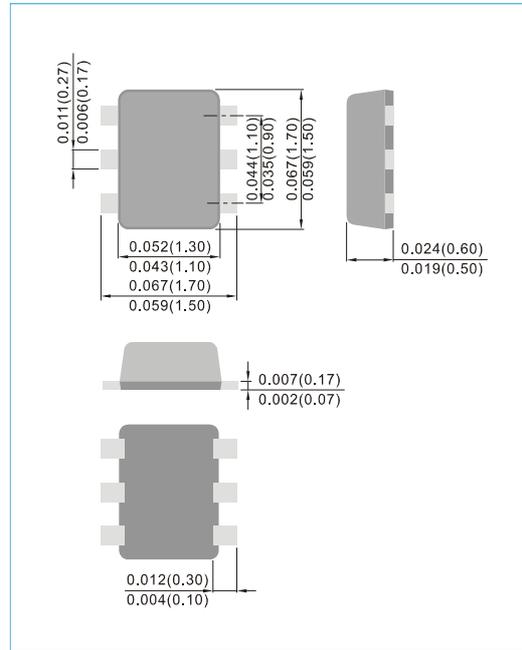


Fig.32



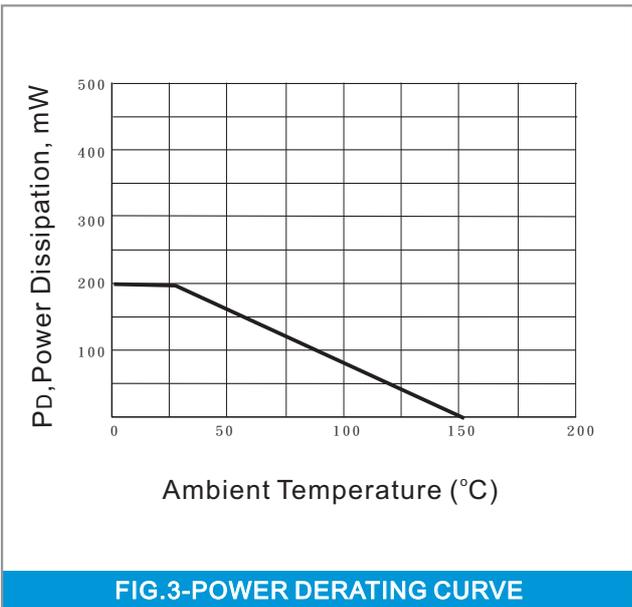
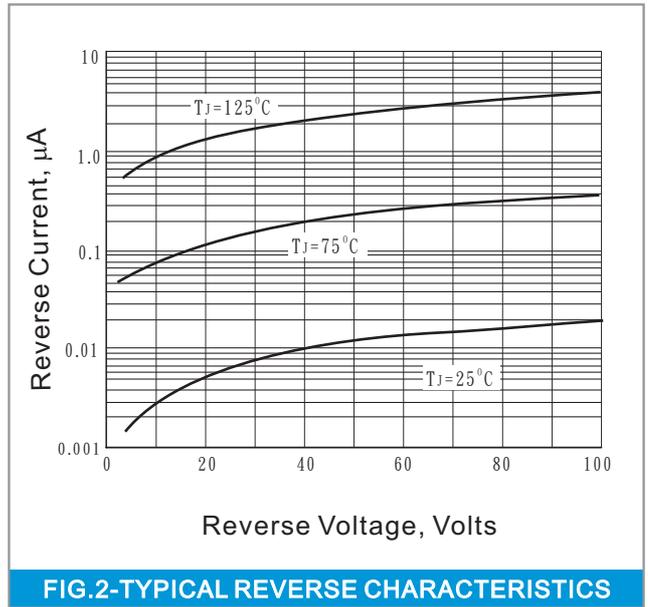
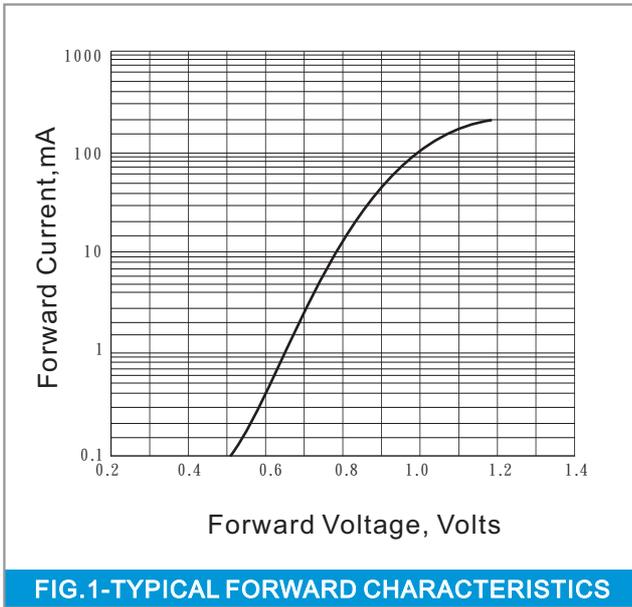
## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

PARAMETER	SYMBOL	VALUE	UNITS
Reverse Voltage	$V_R$	75	V
Peak Reverse Voltage	$V_{RM}$	100	V
Rectified Current (Average), Half Wave Rectification With Resistive Load and $f \geq 50\text{Hz}$	$I_O$	150	mA
Peak Forward Surge Current, 1 $\mu\text{s}$	$I_{FSM}$	4	A
Power Dissipation Derate Above 25°C	$P_{TOT}$	200	mW
Maximum Forward Voltage	$V_F$	0.715@ $I_F=0.001\text{A}$ 0.855@ $I_F=0.01\text{A}$ 1@ $I_F=0.05\text{A}$ 1.25@ $I_F=0.15\text{A}$	V
Maximum DC Reverse Current at 25V 75V	$I_R$	0.03 2.5	$\mu\text{A}$
Maximum Junction Capacitance (0V, $f=1\text{MHz}$ )	$C_J$	1.5	pF
Maximum Reverse Recovery Time	$T_{RR}$	4	ns
Typical Thermal Resistance	$R_{\theta JA}$	625	°C / W
Junction Temperature Range	$T_J$	-55 to +150	°C



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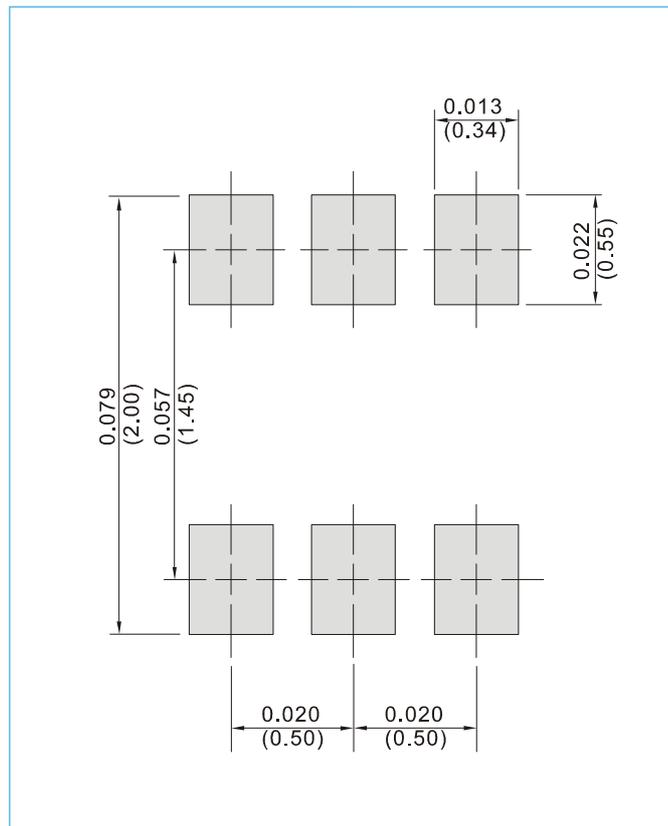


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## MOUNTING PAD LAYOUT

**SOT-563**

Unit : inch(mm)



## ORDER INFORMATION

- Packing information  
T/R - 4K per 7" plastic Reel  
T/R - 10K per 13" plastic Reel



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## Part No\_packing code\_Version

BAV99STB6\_R1\_00001

BAV99STB6\_R2\_00001

For example :

**RB500V-40\_R2\_00001**



Packing Code <b>XX</b>				Version Code <b>XXXXX</b>		
Packing type	1 <sup>st</sup> Code	Packing size code	2 <sup>nd</sup> Code	HF or RoHS	1 <sup>st</sup> Code	2 <sup>nd</sup> ~5 <sup>th</sup> Code
Tape and Ammunition Box (T/B)	A	N/A	0	HF	0	serial number
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number
Bulk Packing (B/P)	B	13"	2			
Tube Packing (T/P)	T	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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