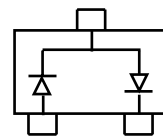
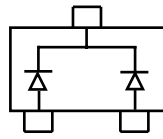
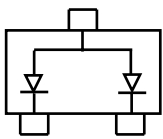
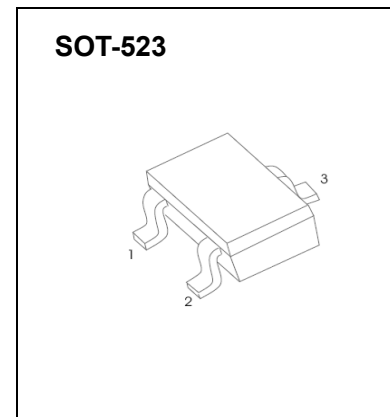


### SWITCHING DIODE FEATURES

- Fast Switching Speed
- For General Purpose Switching Applications
- High Conductance
- **Pb-Free package is available**  
RoHS product for packing code suffix "G"  
Halogen free product for packing code suffix "H"
- **Moisture Sensitivity Level 1**



BAW56T Marking: JD

BAV70T Marking: JJ

BAV99T Marking: JE

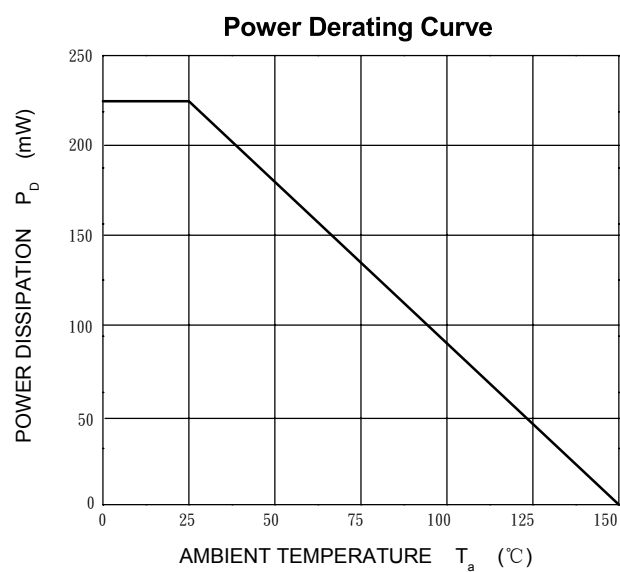
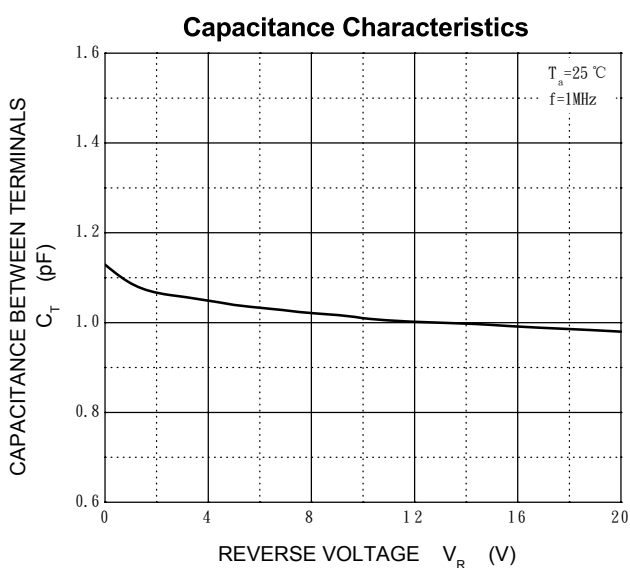
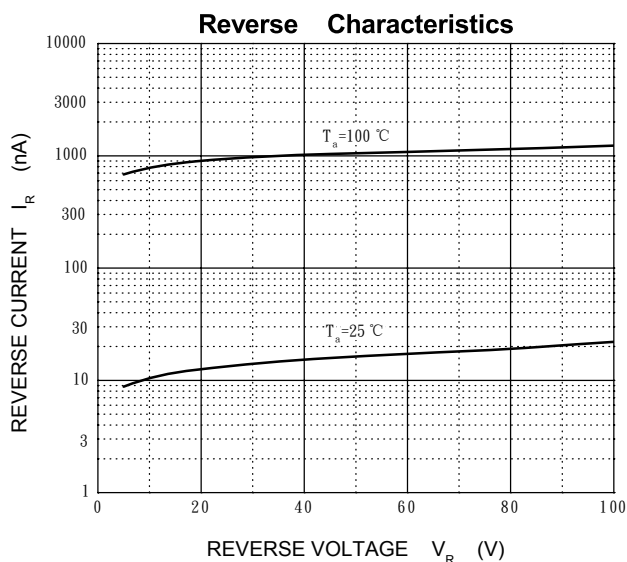
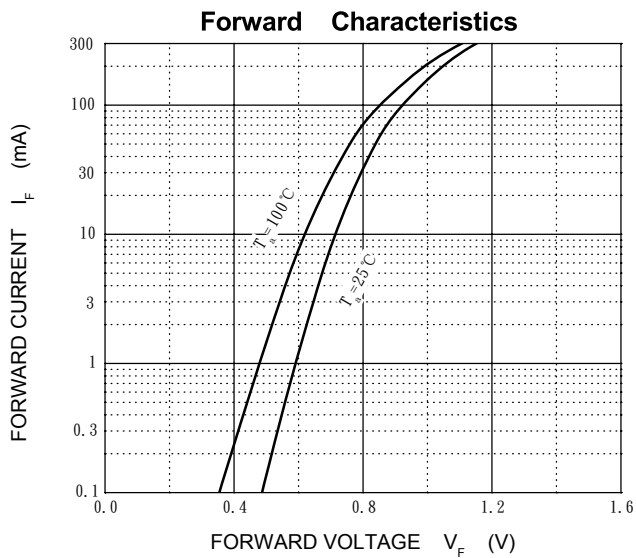
### Maximum Ratings @Ta=25°C

Parameter	Symbol	Limit	Unit
Reverse voltage	$V_R$	70	V
Forward current	$I_o$	200	mA
Forward power dissipation	$P_D$	225	mW
Junction temperature	$T_j$	150	°C
Storage temperature	$T_{stg}$	-55~+150	°C

### ELECTRICAL CHARACTERISTICS (Ta=25°C unless otherwise specified)

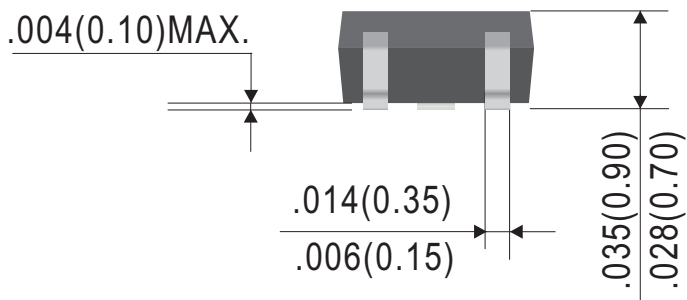
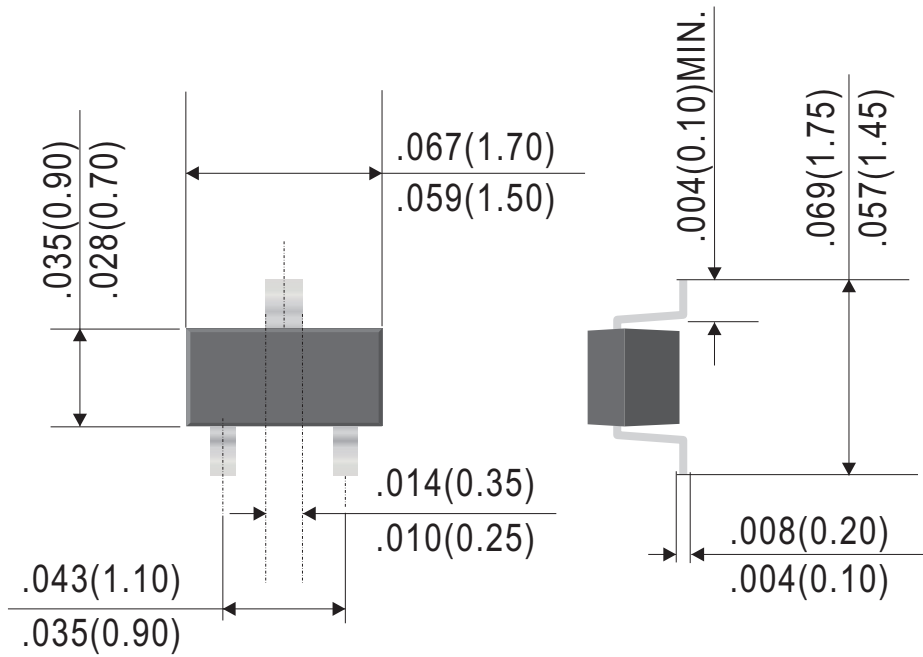
Parameter	Symbol	Test conditions	Min	Max	Unit
Reverse breakdown voltage	$V_{(BR)}$	$I_R=10\ \mu A$	70		V
Reverse voltage leakage current	$I_{R1}$	$V_R=70V$		2	$\mu A$
	$I_{R2}$	$V_R=25V$		0.03	$\mu A$
Forward voltage	$V_F$	$I_F=1mA$ $I_F=10mA$ $I_F=50mA$ $I_F=150mA$		715 855 1000 1250	mV
Diode capacitance	$C_D$	$V_R=0\ f=1MHz$		1.5	pF
Reverse recovery time	$t_{rr}$	$I_F=I_R=10mA$ $I_{tr}=0.1 \times I_R, R_L=100\Omega$		4	ns

## Typical Characteristics



# Outline Drawing

# SOT-523



Dimensions in inches and (millimeters)

Rev.D



# WILLAS



## SOT-523 Plastic-Encapsulate Diodes

BAV70T  
BAV99T  
BAW56T

Suggested Soldering Pad Layout	SOT-523
<p>Dimensions in inches and (millimeters)</p> <p>RevA</p>	

### Ordering Information:

Device PN	Packing
Part Number-T <sup>(1)</sup> G <sup>(2)</sup> -WS	Tape&Reel: 3 Kpcs/Reel

Note: (1) Packing code, Tape&Reel Packing

(2) RoHS product for packing code suffix "G" ; Halogen free product for packing code suffix "H"

### \*\*\*Disclaimer\*\*\*

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