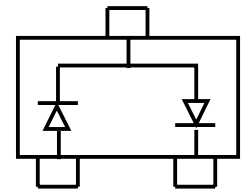
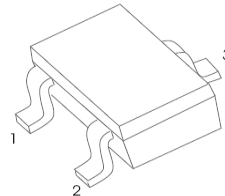


**150mW Plastic-Encapsulate Diodes Switching Diode****PRIMARY CHARACTERISTICS**

V_R	85V
I_o	75mA
$V_F@I_F=50mA$	1.0V
$T_{J,Max}$	125°C

SCHEMATIC DIAGRAM**SOT-523 PACKAGE**

Marking: JE

**FEATURES**

- Fast Switching Speed
- For General Purpose Switching Applications
- High Conductance
- Moisture Sensitivity Level 1

MECHANICAL DATA

- Case : Molded plastic, SOT-523
- Polarity : Shown above
- Terminals :Plated terminals, solderable per MIL-STD-750, Method 2026
- Epoxy : UL94-V0 rated flame retardant

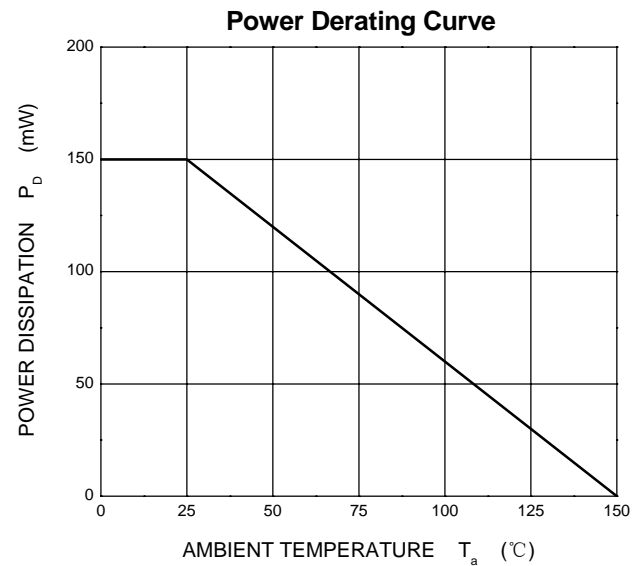
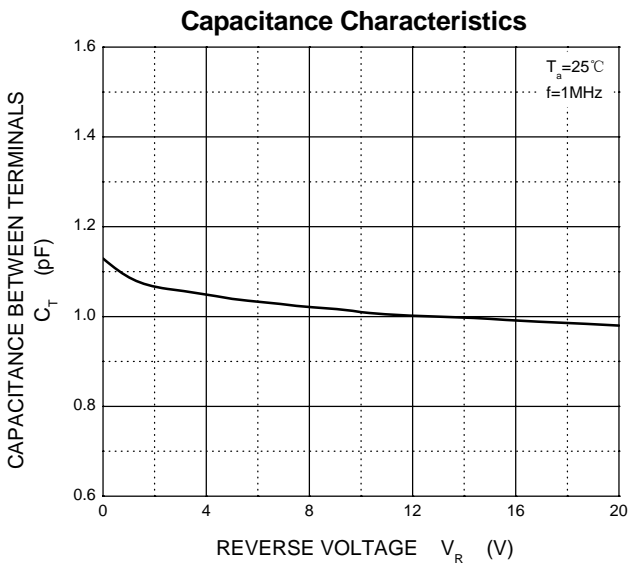
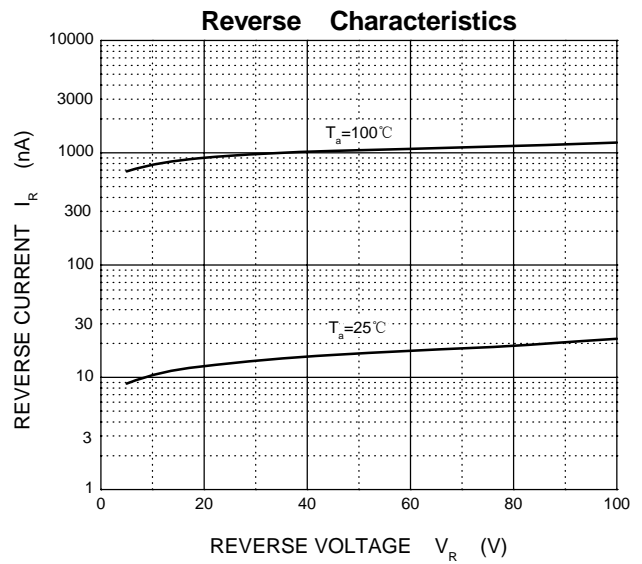
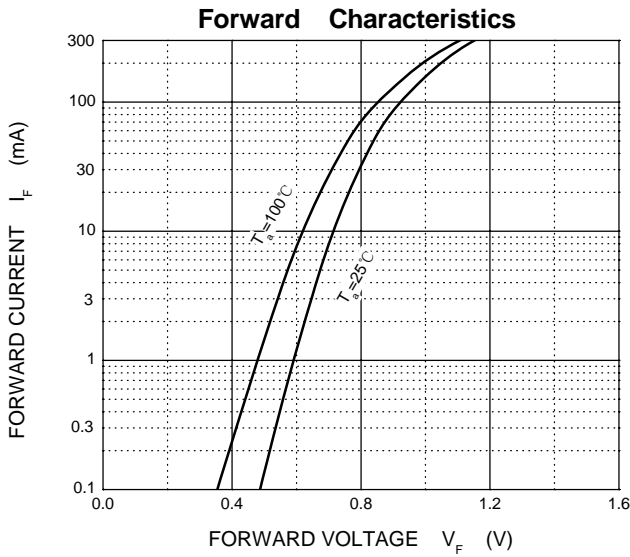
Parameter	Symbo	Limit	Unit
Reverse voltage	V_R	85	
Forward current	I_o	75	mA
Forward power dissipation	P_D	150	
Junction temperature	T_j	125	°C
Storage temperature	T_{stg}	-55~+125	°C

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

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Reverse breakdown voltage	$V_{(BR)}$	$I_R=1\mu A$	85			V
Reverse voltage leakage current	I_{R1}	$V_R=75V$			2	μA
	I_{R2}	$V_R=25V$			0.03	μA
Forward voltage	V_F	$I_F=1mA$ $I_F=10mA$ $I_F=50mA$ $I_F=150mA$			755 855 1000 1250	mV
Diode capacitance	C_D	$V_R=0$ $f=1MHz$		1.5	4.0	pF
Reverse recovery time	t_{rr}	$I_F=I_R=10mA$ $I_{rr}=0.1 \times I_R, R_L=100\Omega$			4	ns



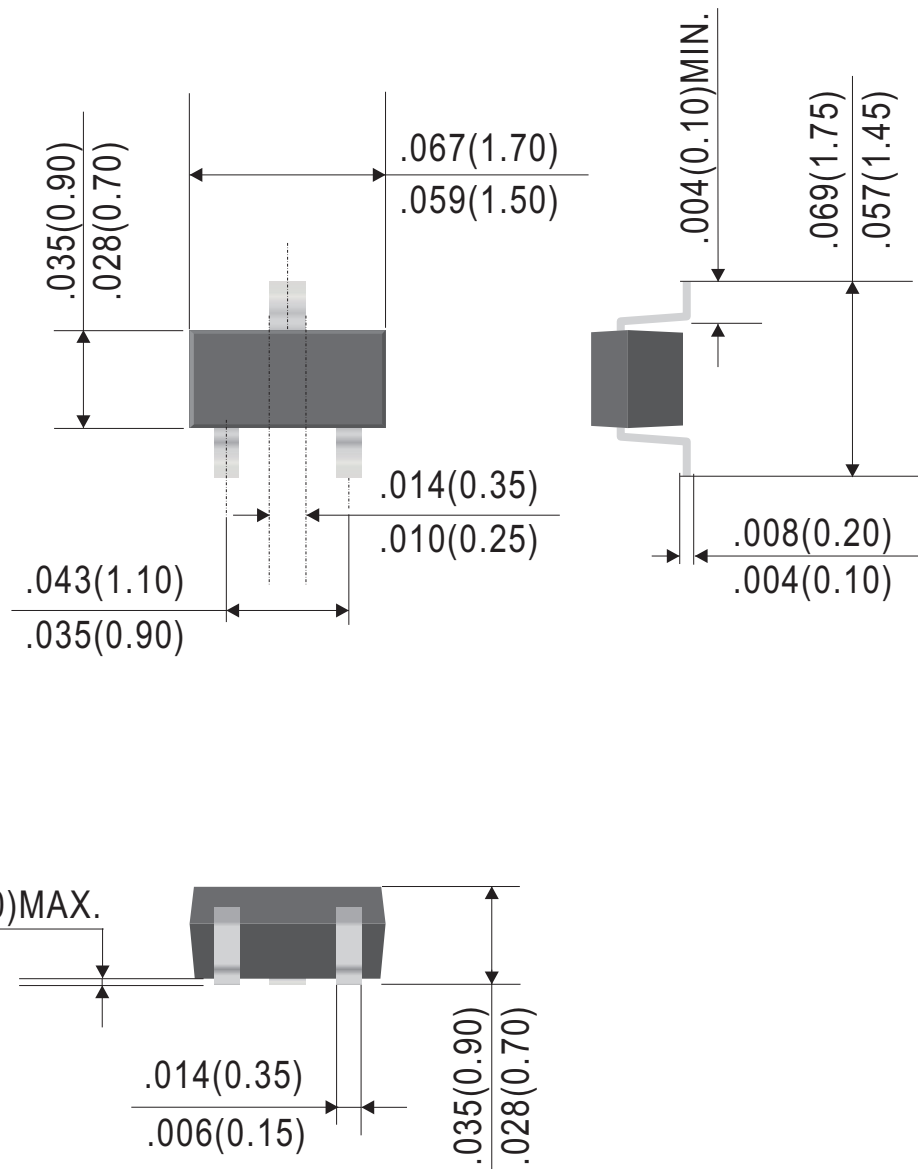
Typical Characteristics





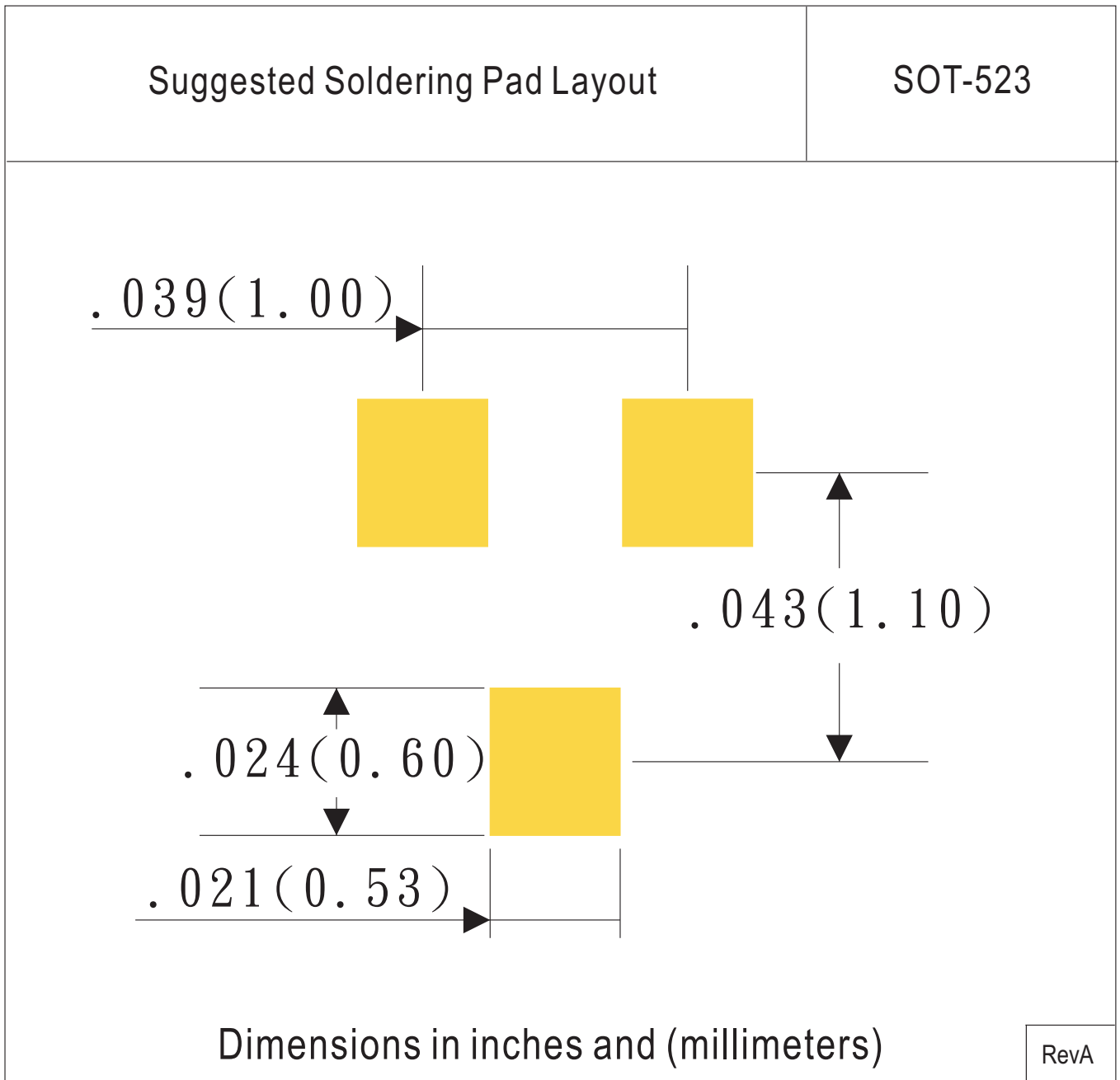
Outline Drawing

SOT-523



Dimensions in inches and (millimeters)

Rev.D



**Ordering Information:**

Device PN	Packing
BAV99TM -T ⁽¹⁾ H ⁽²⁾ -WS ⁽³⁾	Tape&Reel: 3 Kpcs/Reel

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

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

(3) WS : Willas brand abbreviation, Label Type does not display

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