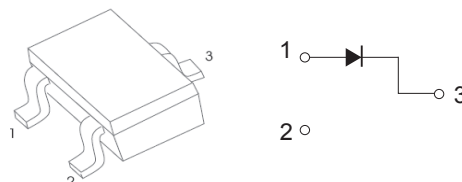


**Plastic-Encapsulate Diodes Switching Diode****PRIMARY CHARACTERISTICS**

V_R	250V
I_O	200mA
$V_F@I_F=200mA$	1.25V
$T_{J,Max}$	150°C

**SCHEMATIC DIAGRAM
SOT-523 PACKAGE****FEATURES**

- Fast Switching Speed
- For General Purpose Switching Applications
- High Conductance

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

Maximum Ratings @Ta=25°C

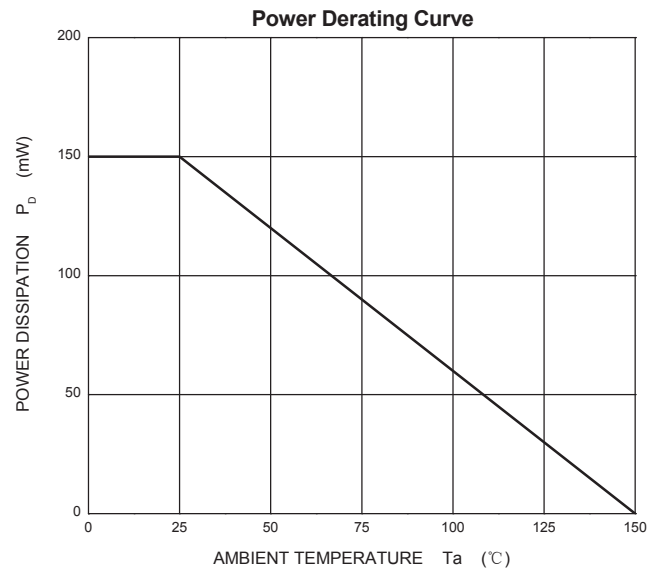
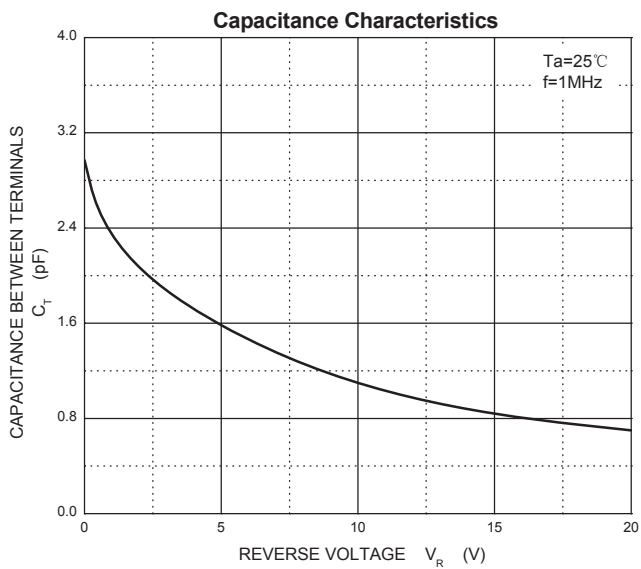
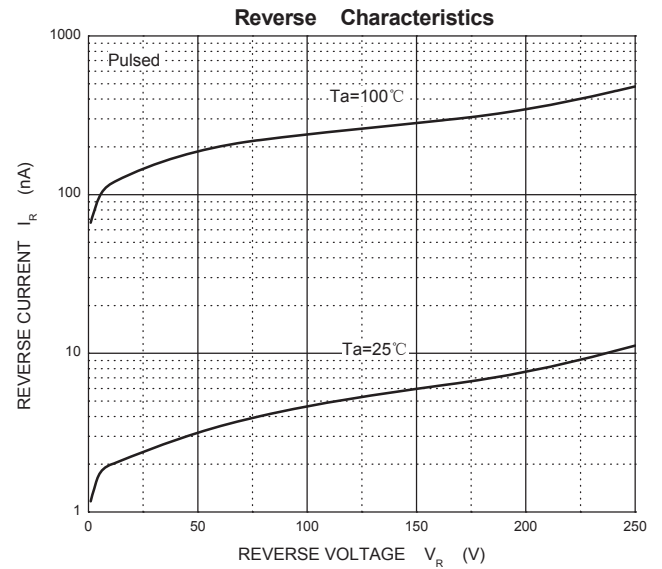
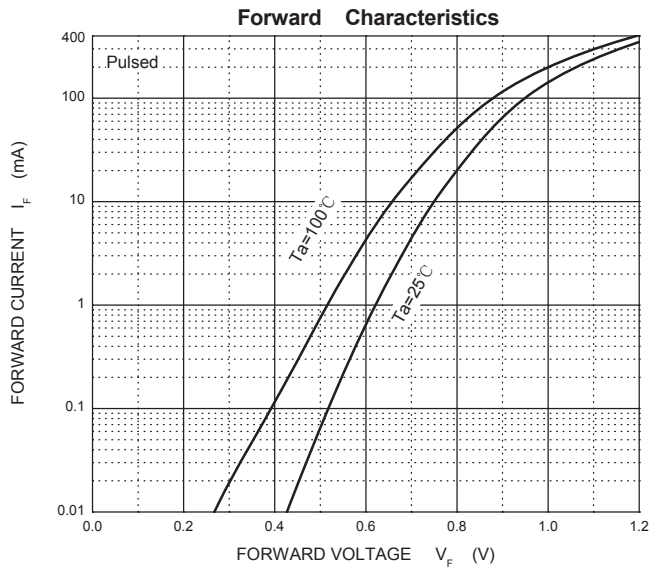
Parameter	Symbol	Limit	Unit
Peak Repetitive Peak Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V_{RRM} V_{RWM} V_R	250	V
Forward Continuous Current	I_{FM}	400	mA
Average Rectified Output Current	I_O	200	mA
Non-Repetitive Peak Forward Surge Current @t=8.3ms	I_{FSM}	2.5	A
Power Dissipation	P_D	150	mW
Thermal Resistance Junction to Ambient	$R_{\theta JA}$	833	°C/W
Operation Junction and Storage Temperature Range	T_J, T_{STG}	-55~+150	°C

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

Parameter	Symbol	Test conditions	Min	Max	Unit
Reverse breakdown voltage	$V_{(BR)}$	$I_R = 100\mu A$	250		V
Reverse voltage leakage current	I_R	$V_R = 200V$		100	nA
Forward voltage	V_F	$I_F = 100mA$ $I_F = 200mA$		1 1.25	V
Total capacitance	C_T	$V_R = 0V, f = 1MHz$		5	pF
Reverse recovery time	t_{rr}	$I_F = I_R = 30mA, I_R = 0.1XI_R,$ $R_L = 100\Omega$		50	ns



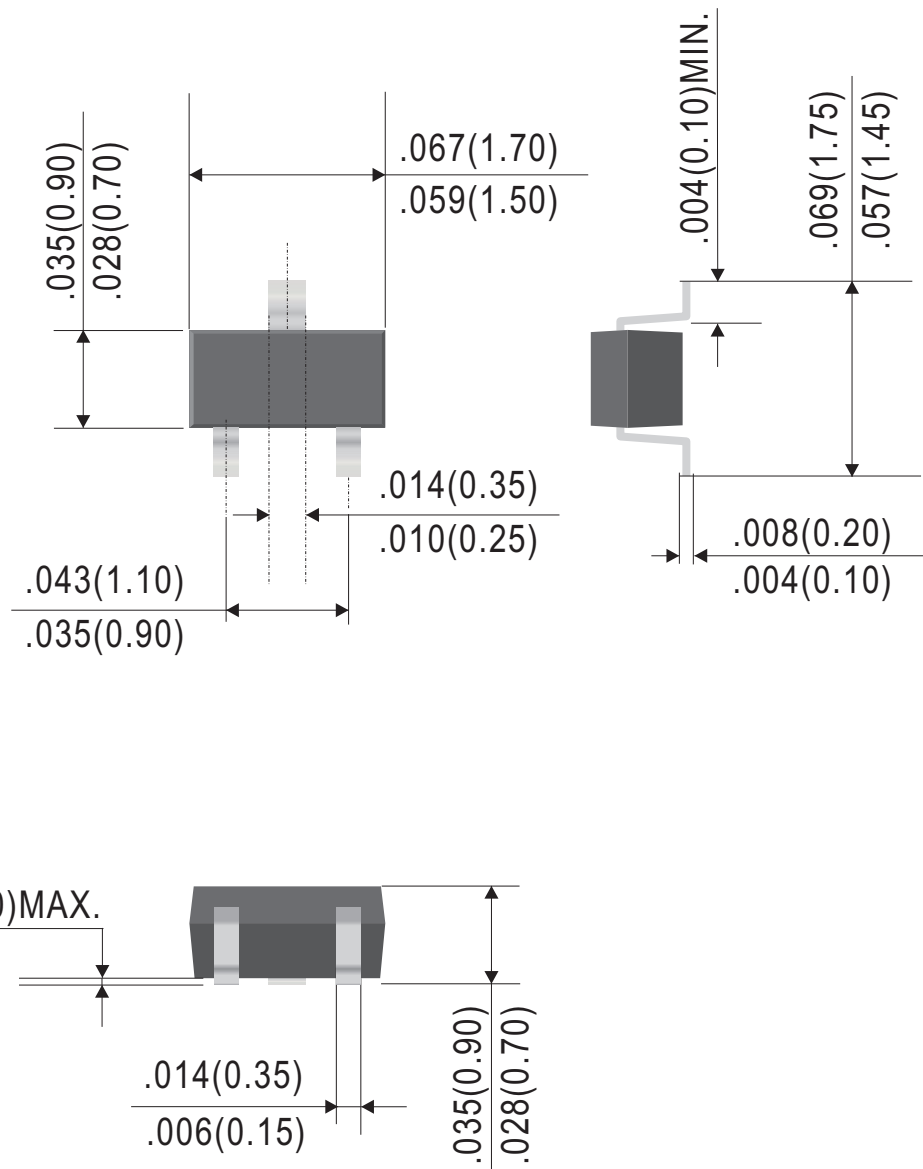
Typical Characteristics





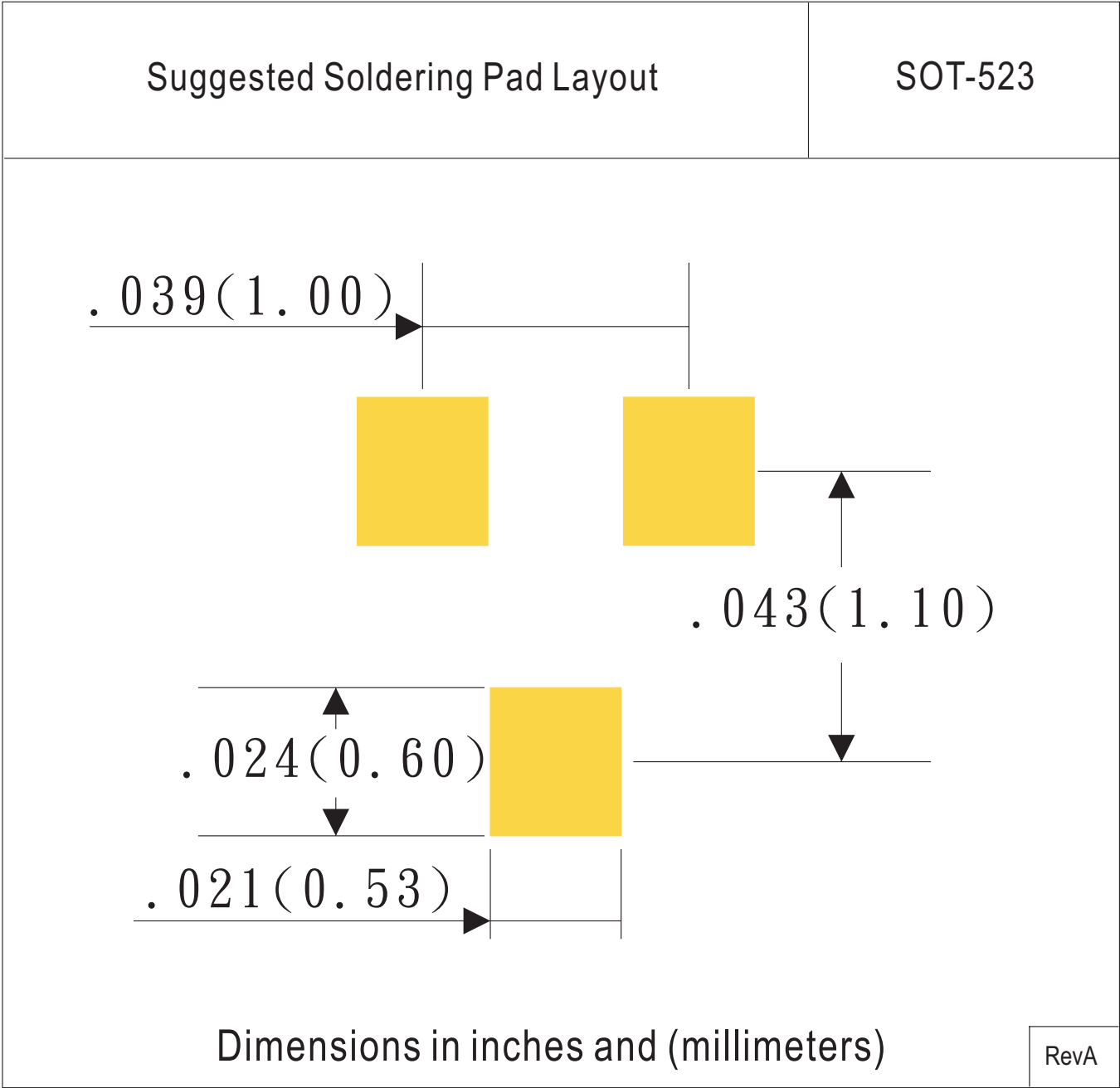
Outline Drawing

SOT-523



Dimensions in inches and (millimeters)

Rev.D



**Ordering Information:**

Device PN	Marking ⁽⁴⁾	Packing
BAS21T-T ⁽¹⁾ H ⁽²⁾ -WS ⁽³⁾	T3	Tape&Reel: 3 Kpcs/Reel

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

(2) Packing code suffix "G" for RoHS product ; Packing code Suffix "H" for halogen free product.
All materials and products supplied comply with the U.S. Toxic Substances Control Act statement, PBT Chemicals.

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

(4) There may be additional marking, which relates to the lot trace code information (data code and vendor code), the logo or the environmental category on the device

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