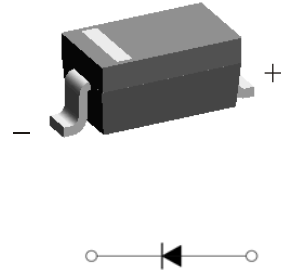
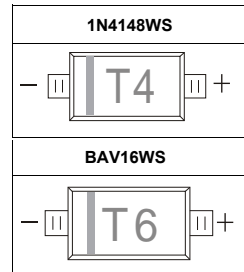


**Plastic-Encapsulate Fast Switching Diodes**

PRIMARY CHARACTERISTICS	
$P_D$	200mW
$V_{RRM}$	100V
$I_O$	150mA
$V_{DO}$	1.0V
$T_{J,Max}$	150°C

**SOD-323 PACKAGE**
**MARKING: T6,T4**

**FEATURES**

- Fast Switching Speed
- Surface Mount Package Ideally Suited for Automatic Insertion
- For General Purpose Switching Applications
- High Conductance
- Moisture Sensitivity Level 1

**MECHANICAL DATA**

- Case : Molded plastic,SOD-323
- Polarity : As Above Marked
- Terminals :Plated terminals, solderable per MIL-STD-750,Method 2026
- Epoxy : UL94-V0 rated flame retardant

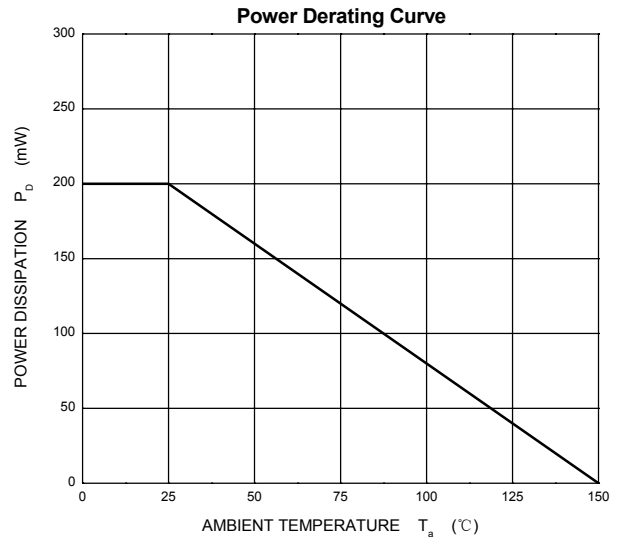
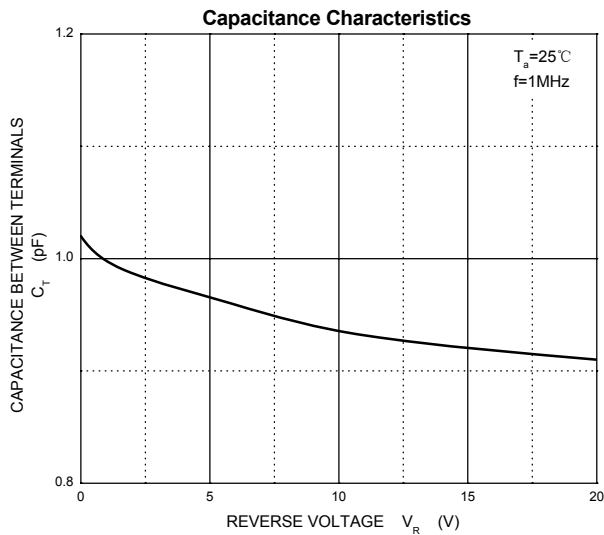
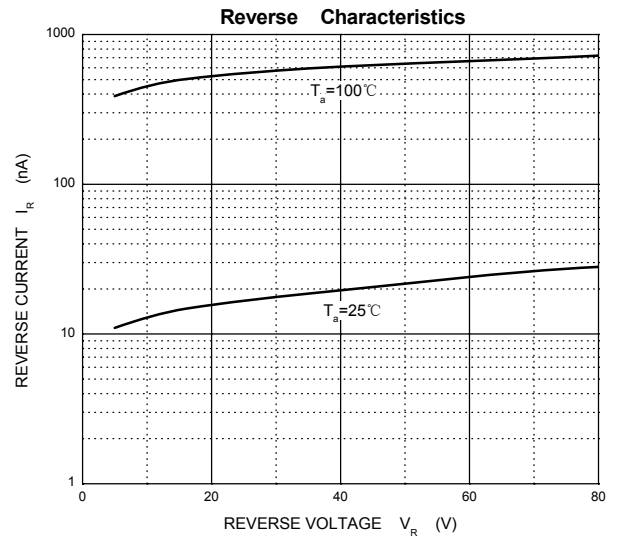
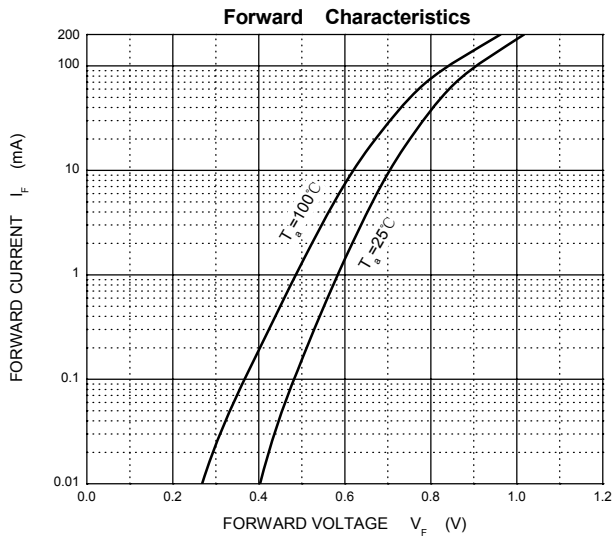
**Maximum Ratings and Electrical Characteristics, Single Diode @Ta=25°C**

Parameter	Symbol	Limit	Unit
Non-Repetitive Peak Reverse Voltage	$V_{RM}$	100	V
Peak Repetitive Peak Reverse Voltage	$V_{RRM}$	100	V
Working Peak Reverse Voltage	$V_{RWM}$		
DC Blocking Voltage	$V_R$		
RMS Reverse Voltage	$V_{R(RMS)}$	71	V
Forward Continuous Current	$I_{FM}$	300	mA
Average Rectified Output Current	$I_O$	150	mA
Peak Forward Surge Current @t=8.3ms	$I_{FSM}$	2.0	A
Power Dissipation	$P_d$	200	mW
Thermal Resistance Junction to Ambient	$R_{\theta JA}$	625	°C/W
Junction Temperature	$T_j$	150	°C
Operating/Storage Temperature	$T_{STG}$	-55~+150	°C

**Electrical Ratings @Ta=25°C**

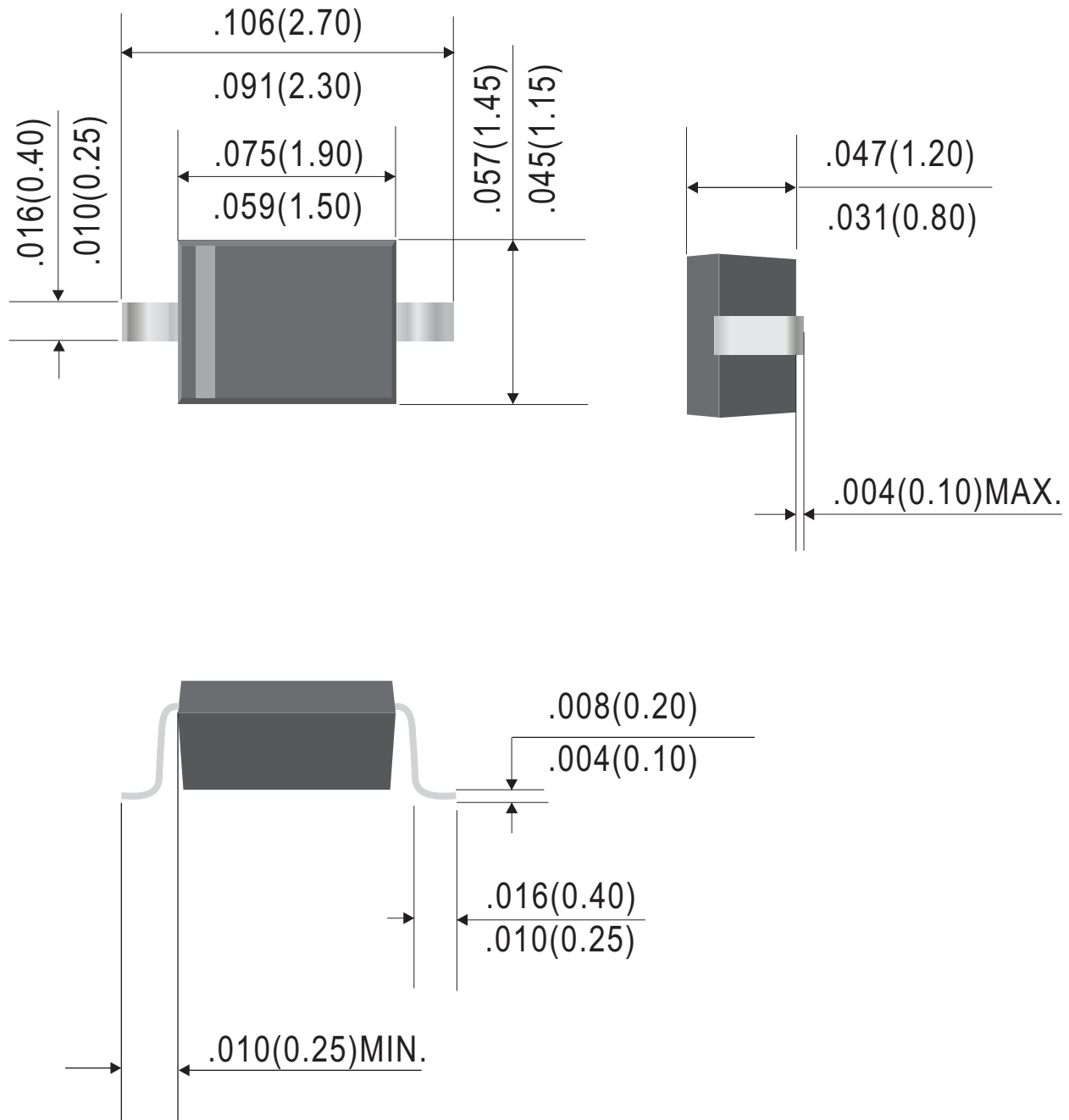
Parameter	Symbol	Min	Typ	Max	Unit	Conditions
Forward voltage	$V_{F1}$			0.715	V	$I_F=1mA$
	$V_{F2}$			0.855	V	$I_F=10mA$
	$V_{F3}$			1.0	V	$I_F=50mA$
	$V_{F4}$			1.25	V	$I_F=150mA$
Reverse current	$I_{R1}$			1	μA	$V_R=75V$
	$I_{R2}$			25	nA	$V_R=20V$
Capacitance between terminals	$C_T$			2	pF	$V_R=0V, f=1MHz$
Reverse recovery time	$t_{rr}$			4	ns	$I_F=I_R=10mA$ $I_{rr}=0.1I_R, R_L=100\Omega$

## Typical Characteristics



# Outline Drawing

# SOD-323

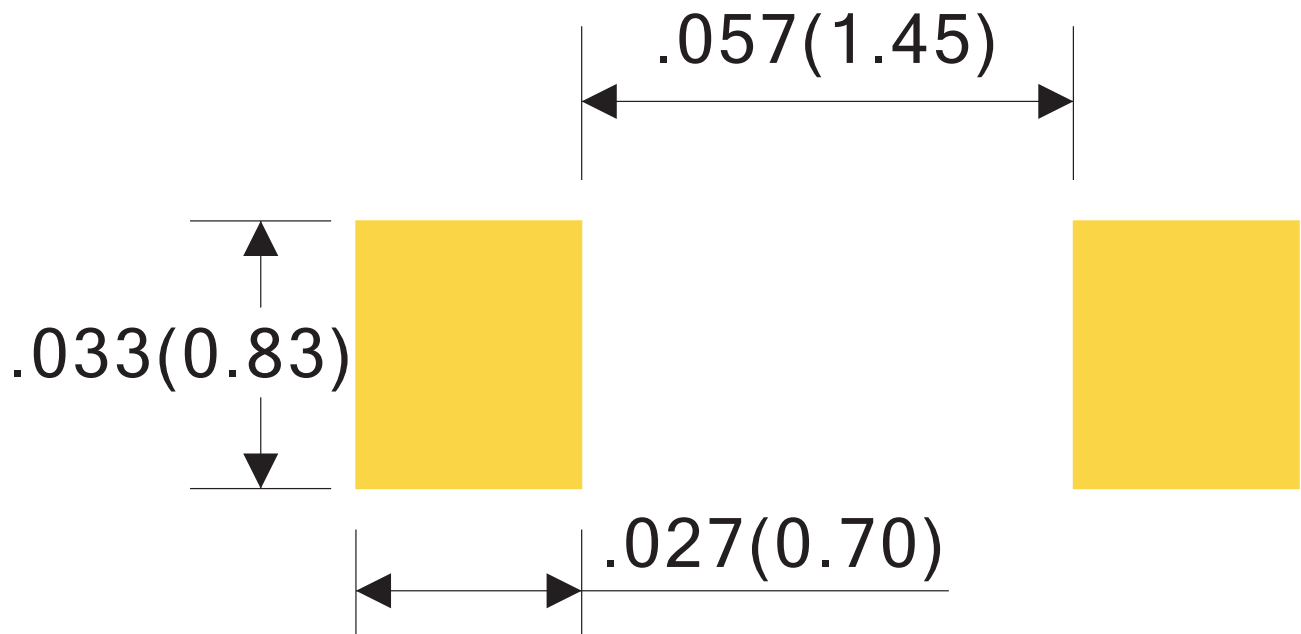


Dimensions in inches and (millimeters)

Rev.D

Suggested Soldering Pad Layout

SOD-323

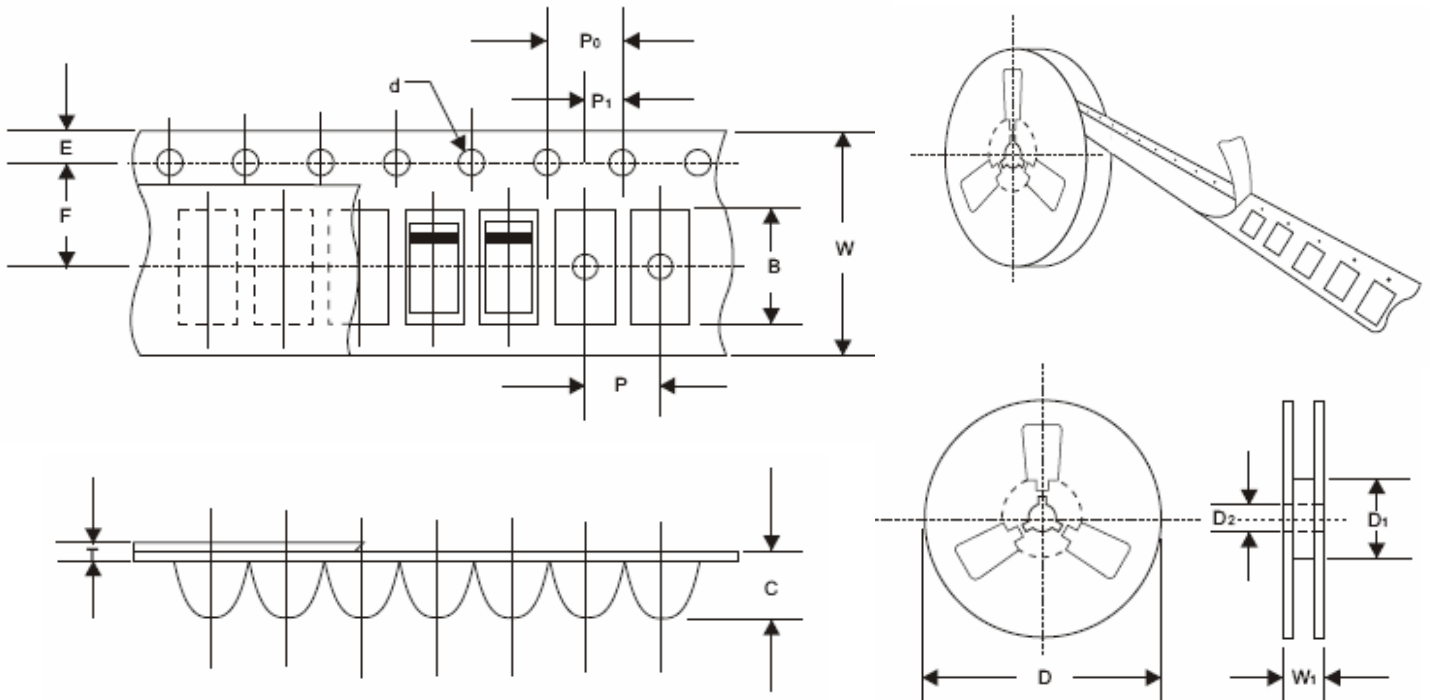


Dimensions in inches and (millimeters)

RevA

**Reel Taping Specification - Surface Mount Device/SOD-323**

PACKAGE	PER REEL EA	REEL DIA (m/m)	PER BOX EA	PER CARTION EA
SOD-323	3000	178	30000	240,000



ITEM	SYMBOL	SPECIFICATIONS(mm)		SPECIFICATIONS(inch)	
		SOD-323		SOD-323	
Carrier length	B	4.5max.		0.177max.	
Carrier depth	C	2.4max.		0.094max.	
Sprocket hole	d	1.55±0.1		0.061±0.004	
Reel outside diameter	D	178max.		7max.	
Reel inner diameter	D1	50min.		1.969min.	
Feed hole diameter	D2	13.0±0.2		0.512±0.008	
Sprocket hole position	E	1.75±0.1		0.069±0.004	
Punch hole position	F	3.5±0.05		0.1378±0.002	
Punch hole pitch	P	4.0±0.1		0.157±0.004	
Sprocket hole pitch	P0	4.0±0.1		0.157±0.004	
Embossment center	P1	2.0±0.05		0.079±0.002	
Overall tape thickness	T	0.4max.		0.016max.	
Tape width	W	8.0±0.3		0.315±0.012	
Reel width	W1	14.4max.		0.567max.	

**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\*\*\***

WILLAS reserves the right to make changes without notice to any product specification herein, to make corrections, modifications, enhancements or other changes. WILLAS or anyone on its behalf assumes no responsibility or liability for any errors or inaccuracies. Data sheet specifications and its information contained are intended to provide a product description only. "Typical" parameters which may be included on WILLAS data sheets and/ or specifications can and do vary in different applications and actual performance may vary over time. WILLAS does not assume any liability arising out of the application or use of any product or circuit.

WILLAS products are not designed, intended or authorized for use in medical, life-saving implant or other applications intended for life-sustaining or other related applications where a failure or malfunction of component or circuitry may directly or indirectly cause injury or threaten a life without expressed written approval of WILLAS. Customers using or selling WILLAS components for use in such applications do so at their own risk and shall agree to fully indemnify WILLAS Inc and its subsidiaries harmless against all claims, damages and expenditures.