



SOD-323



Features

- Fast switching speed
- Surface Mount Package Ideally Suited for Automatic Insertion
- For general purpose switching applications
- High conductance
- Moisture Sensitivity Level 1
- Polarity : Color band denotes cathode end
- Marking : T5

Ordering Information

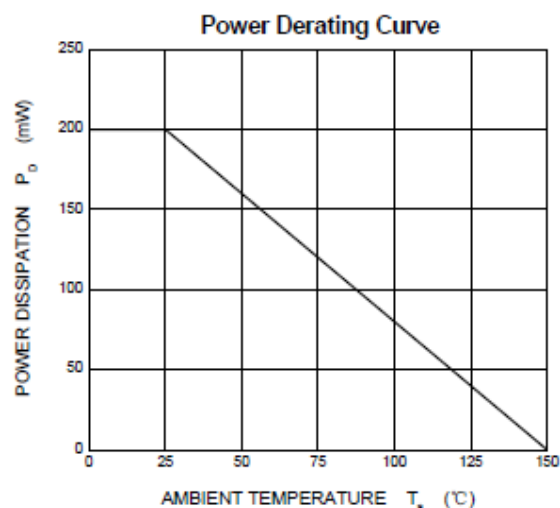
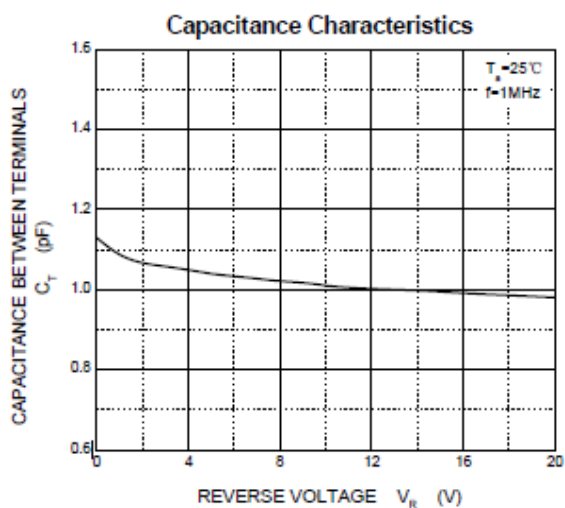
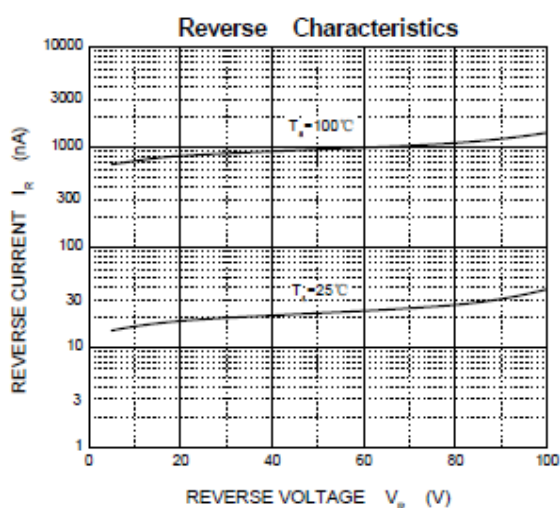
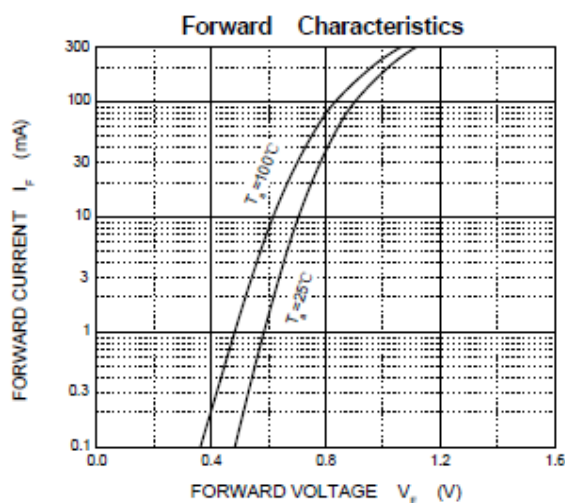
Part No.	Remark	Package	Packing
1N4448WS	General	SOD-323	3000 / Tape & Reel
1N4448WS-H	Halogen Free		

Maximum Ratings TA = 25°C unless otherwise noted

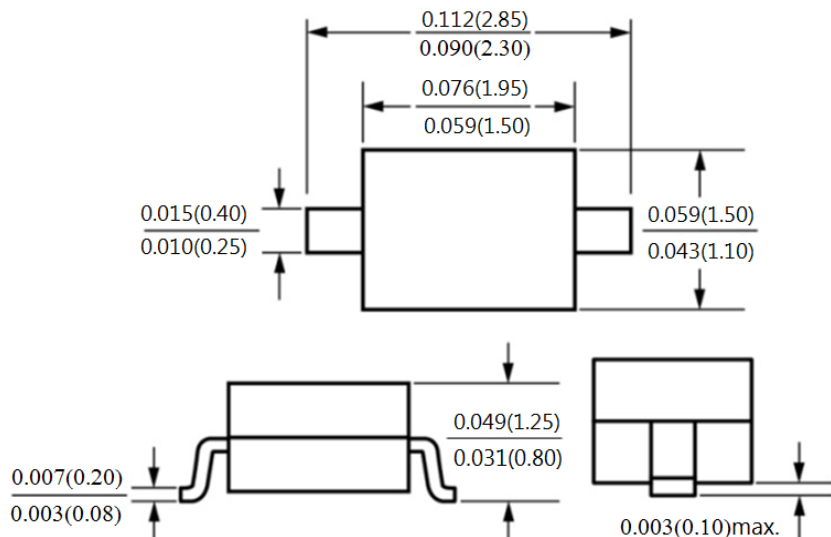
Parameter	Symbol	Limits	Units
Non-Repetitive Peak Reverse Voltage	V_{RM}	100	V
Peak Repetitive Reverse Voltage	V_{RRM}	75	V
Working Peak Reverse Voltage	V_{RWM}		
DC Blocking Voltage	V_R		
RMS Reverse Voltage	V_R	53	V
Forward Continuous Current	I_{FM}	500	mA
Average Rectified Output Current	I_O	250	mA
Peak Forward Surge Current @ t = 1.0µs @ t = 1.0s	I_{FSM}	4.0 1.5	A
Power Dissipation	P_D	200	mW
Thermal Resistance Junction to Ambient Air	R_{thJA}	625	°C / W
Operating and Storage Temperature Range	T_{STG}	-55 ~ 150	°C

Electrical Characteristics TA = 25°C unless otherwise noted					
Parameter	Symbol	Min	Max	Unit	Conditions
Reverse Breakdown Voltage	V_{RM}	75	-	V	$I_R = 10\mu A$
Forward Voltage	V_{F1}	0.62	0.72	V	$I_F = 5mA$
	V_{F2}	-	0.855	V	$I_F = 10mA$
	V_{F3}	-	1	V	$I_F = 100mA$
	V_{F4}	-	1.25	V	$I_F = 150mA$
Reverse Current	I_{R1}	-	2.5	μA	$V_R = 75V$
	I_{R2}	-	25	nA	$V_R = 20V$
Capacitance between terminals	C_T	-	4	pF	$V_R = 0, f = 1.0MHz$
Reverse Recovery Time	t_{rr}	-	4	ns	$I_F = I_R = 10mA$ $I_{rr} = 0.1I_R, R_L = 100\Omega$

Rating and Characteristics Curves



Package Outline Dimensions

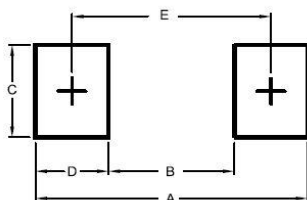


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Dimensions in inches and (millimeters)

Suggested Pad Layout

Outline	SOD-323
Dimension	(mm)
A	-
B	1.45
C	0.83
D	0.70
E	-



Tap & Reel Specification

Item	Symbol	Dimension
		Unit (mm)
Carrier length	B	4.5 max.
Carrier depth	C	2.4 max.
Sprocket hole	d	1.55 ±0.1
Reel outside diameter	D	178 max.
Feed hole diameter	D0	13.5 ±0.2
Reel inner diameter	D1	50 min.
Sprocket hole position	E	1.75 ±0.1
Punch hole position	F	3.5 ±0.05
Sprocket hole pitch	P	4.0±0.1
Sprocket hole pitch	P0	4.0±0.1
Embossment center	P1	2.0±0.05
Tape width	W	8.0±0.3
Reel width	W1	14.4 max.

