



# Product data sheet

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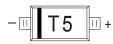


### FEATURES

- Small Package
- Low Reverse Current
- Fast Switching Speed
- Surface Mount Package Ideally Suited for Automatic Insertion

#### **MARKING: T5**

SOD-323



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

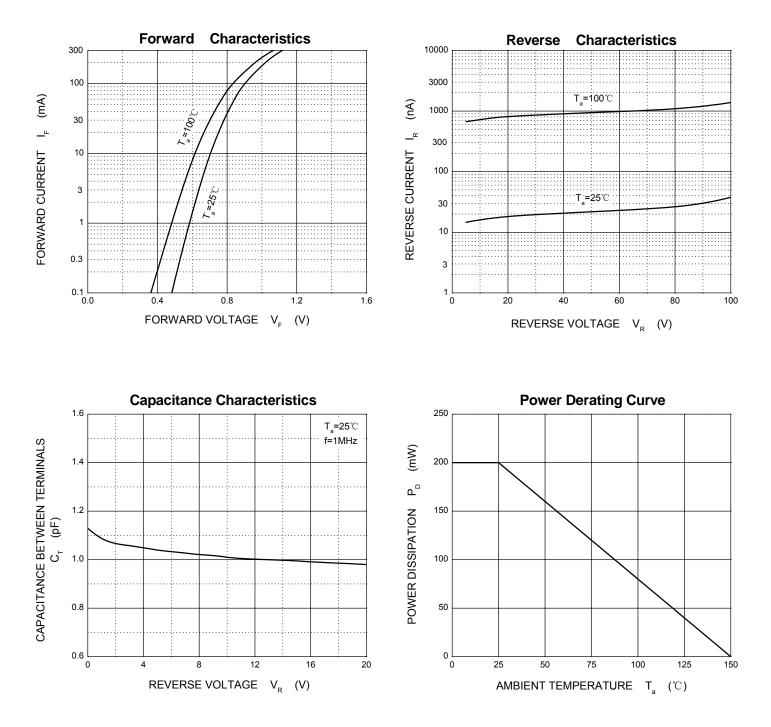
Parameter	Symbol	Limit	Unit
Non-Repetitive Peak Reverse Voltage	V <sub>RM</sub>	100	V
Peak Repetitive Peak Reverse Voltage	V <sub>RRM</sub>		
Working Peak Reverse Voltage	V <sub>RWM</sub>	75	V
DC Blocking Voltage	V <sub>R</sub>		
RMS Reverse Voltage	V <sub>R(RMS)</sub>	53	V
Forward Continuous Current	I <sub>FM</sub>	500	mA
Average Rectified Output Current	lo	250	mA
Non-Repetitive Peak Forward Surge Current @t=8.3ms	I <sub>FSM</sub>	2.0	А
Power Dissipation	Pd	200	mW
Thermal Resistance Junction to Ambient	$R_{\theta JA}$	625	°C/W
Operation Junction and Storage Temperature Range	$T_J, T_{STG}$	-55~+150	ĉ

### Electrical Ratings @Ta=25°C

Parameter	Symbol	Min	Тур	Max	Unit	Conditions
Reverse Breakdown Voltage	V (BR)R	75			V	Ir=10µA
Forward Voltage	V <sub>F1</sub>	0.62		0.72	V	I <sub>F</sub> =5mA
	V <sub>F2</sub>			0.855	V	I <sub>F</sub> =10mA
	V <sub>F3</sub>			1.0	V	I <sub>F</sub> =100mA
	V <sub>F4</sub>			1.25	V	I <sub>F</sub> =150mA
Reverse Current	I <sub>R1</sub>			2.5	μA	V <sub>R</sub> =75V
	I <sub>R2</sub>			25	nA	V <sub>R</sub> =20V
Capacitance Between Terminals	CT			4	pF	V <sub>R</sub> =0V,f=1MHz
Reverse Recovery Time	t <sub>rr</sub>			4	ns	I <sub>F</sub> =I <sub>R</sub> =10mA
						$Irr=0.1XI_R, R_L=100\Omega$



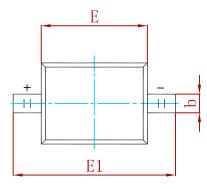


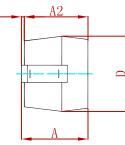




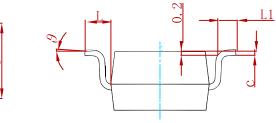


## PACKAGE MECHANICAL DATA



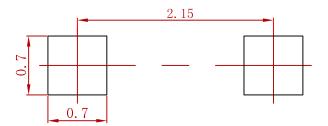


<u>A1</u>



Cymphel	Dimensions In Millimeters		Dimensions In Inches		
Symbol -	Min.	Max.	Min.	Max.	
A		1.000		0.039	
A 1	0.000	0.100	0.000	0.004	
A2	0.800	0.900	0.031	0.035	
b	0.250	0.350	0.010	0.014	
с	0.080	0.150	0.003	0.006	
D	1.200	1.400	0.047	0.055	
E	1.600	1.800	0.063	0.071	
E1	2.550	2.750	0.100	0.108	
L	0.475 REF.		0.019 REF.		
L1	0.250	0.400	0.010	0.016	
θ	0°	8°	0°	8°	

## Suggested Pad Layout



## Note:

1.Controlling dimension:in millimeters.

2.General tolerance:± 0.05mm.

3. The pad layout is for reference purposes only.

## **REEL SPECIFICATION**

P/N	PKG	QTY
1N4448WS	SOD-323	3000





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