



Product data sheet

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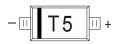


FEATURES

- 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

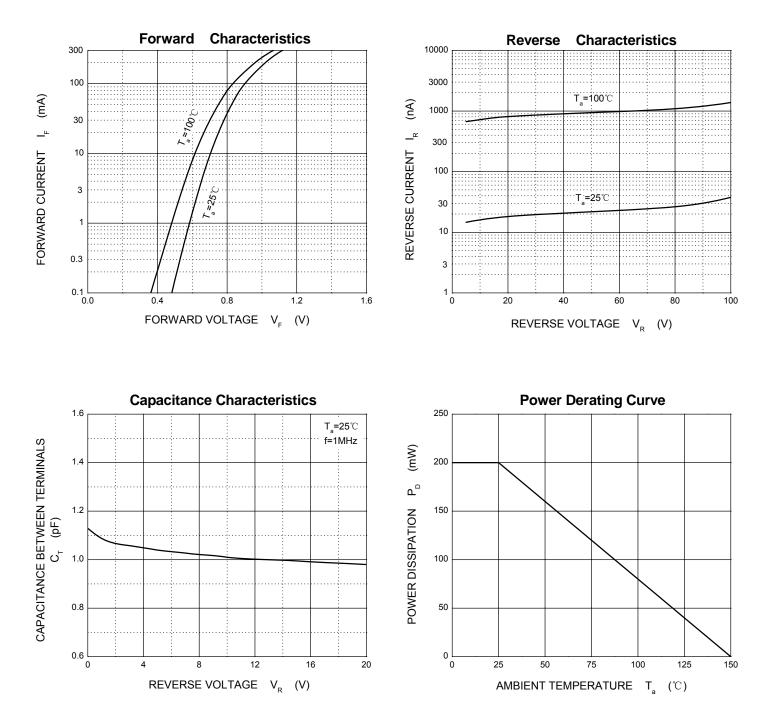
| Parameter | Symbol | Limit | Unit |
|--|---------------------|----------|------|
| Non-Repetitive Peak Reverse Voltage | V _{RM} | 100 | V |
| Peak Repetitive Peak Reverse Voltage | V _{RRM} | | |
| Working Peak Reverse Voltage | V _{RWM} | 75 | V |
| DC Blocking Voltage | V _R | | |
| RMS Reverse Voltage | V _{R(RMS)} | 53 | V |
| Forward Continuous Current | I _{FM} | 500 | mA |
| Average Rectified Output Current | lo | 250 | mA |
| Non-Repetitive Peak Forward Surge Current @t=8.3ms | I _{FSM} | 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 _{F1} | 0.62 | | 0.72 | V | I _F =5mA |
| | V _{F2} | | | 0.855 | V | I _F =10mA |
| | V _{F3} | | | 1.0 | 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 | CT | | | 4 | pF | V _R =0V,f=1MHz |
| Reverse Recovery Time | t _{rr} | | | 4 | ns | I _F =I _R =10mA |
| | | | | | | $Irr=0.1XI_R, R_L=100\Omega$ |



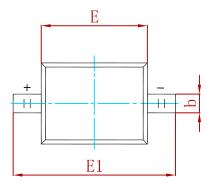


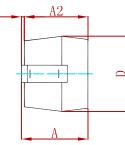




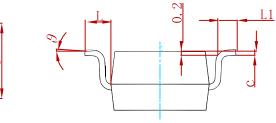


PACKAGE MECHANICAL DATA



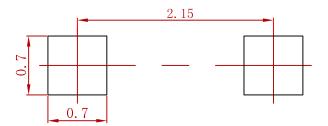


<u>A1</u>



| 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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