

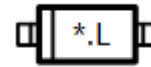
WSB5503W
Middle Power Schottky Barrier Diode
[Http://www.sh-willsemi.com](http://www.sh-willsemi.com)
Features

- 1A Average rectified forward current
- Low forward voltage
- Low leakage current
- Small package SOD-323


SOD-323

Circuit
Applications

- Switching circuit
- Middle current rectification


Marking
Absolute maximum ratings

| Parameter | Symbol | Value | Unit |
|-------------------------------------|-----------|-----------|------|
| Reverse voltage (repetitive peak) | V_{RM} | 40 | V |
| Reverse voltage (DC) | V_R | 40 | V |
| Average rectified forward current | I_O | 1 | A |
| Peak forward current ⁽¹⁾ | I_{PK} | 25 | A |
| Junction temperature | T_J | 125 | °C |
| Operating temperature | T_{opr} | -40 ~ 85 | °C |
| Storage temperature | T_{stg} | -55 ~ 150 | °C |

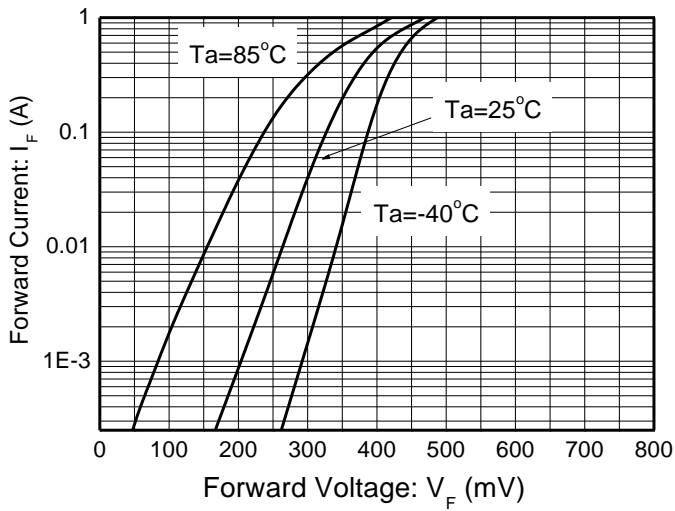
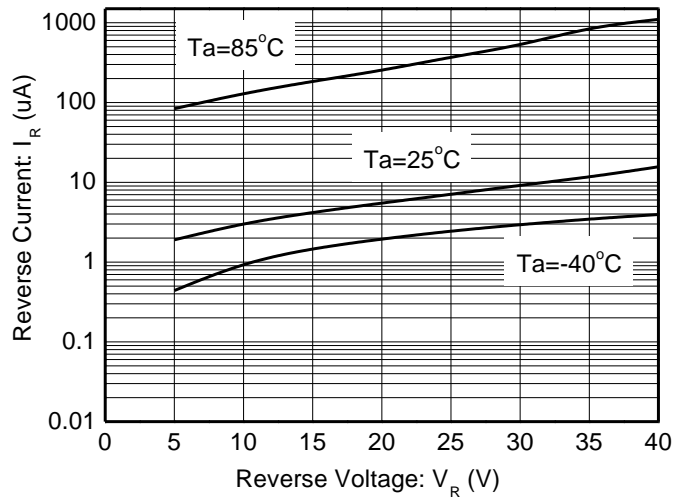
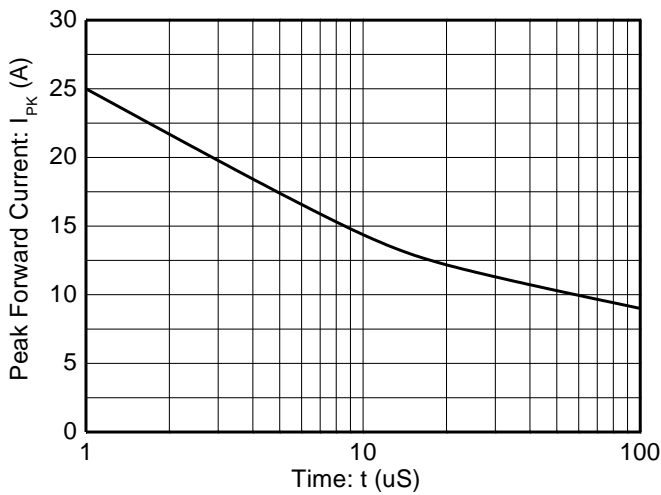
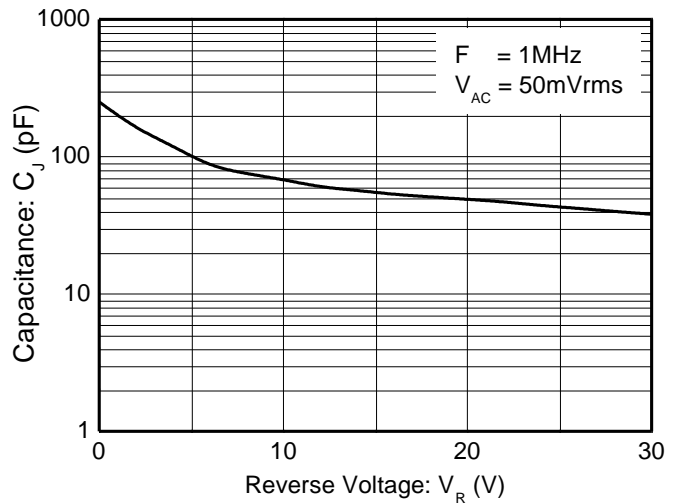
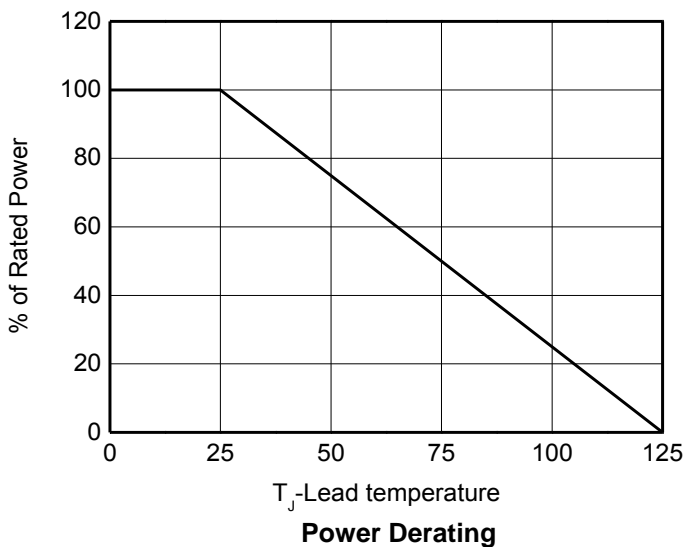
Electronics characteristics ($T_A=25^{\circ}C$)

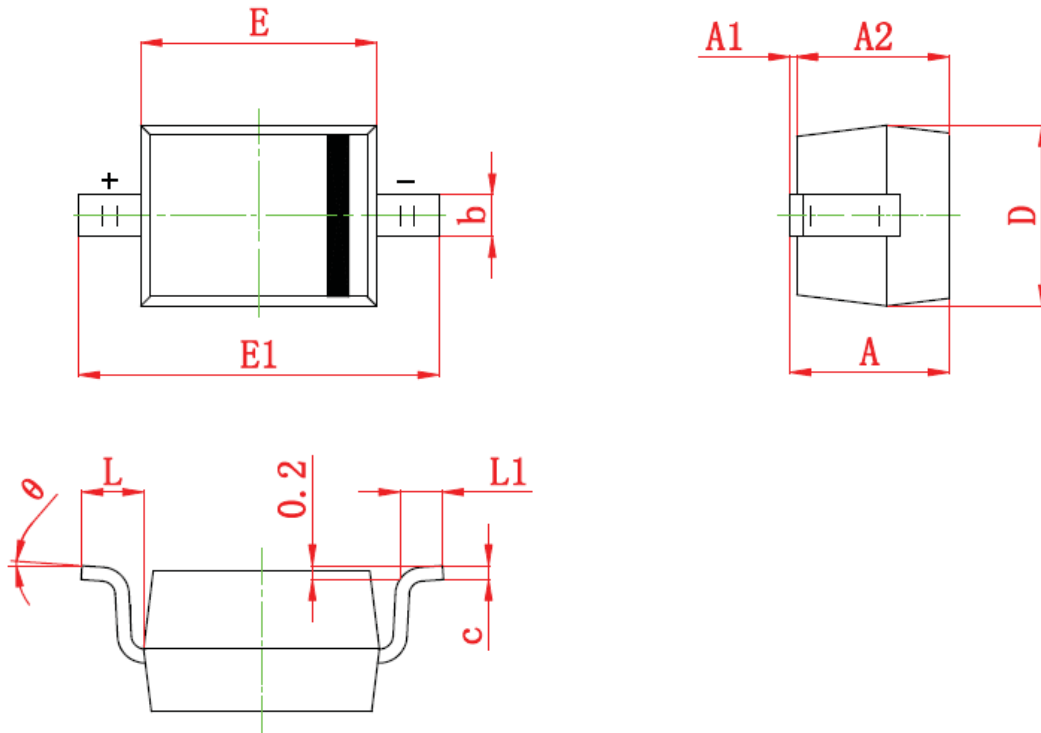
| Parameter | Symbol | Condition | Min. | Typ. | Max. | Unit |
|----------------------|--------|------------------|------|------|------|------|
| Forward voltage | V_F | $I_F=1A$ | - | 0.5 | 0.57 | V |
| Reverse current | I_R | $V_R=V_R$ | - | 10 | 50 | uA |
| Junction capacitance | C_J | $V_R=4V, F=1MHz$ | - | - | 120 | pF |

Order Informations

| Device | Package | Marking | Shipping |
|---------------|---------|---------------------|----------------|
| WSB5503W-2/TR | SOD-323 | *. L ⁽²⁾ | 3000/Reel&Tape |

Note 1 : Pulse Width=1us, Single Pulse
Note 2 : * = Month code (A~Z); . L = Device code

Typical characteristics (Ta=25°C, unless otherwise noted)

Forward voltage vs. Forward current

Reverse current vs. Reverse voltage

Peak pulse forward current characteristics

Junction capacitance vs. Reverse voltage

Power Derating

Package outline dimensions
SOD-323


| Symbol | Dimensions in millimeter | | |
|--------|--------------------------|-------|-------|
| | Min. | Typ. | Max. |
| A | - | - | 1.000 |
| A1 | - | - | 0.100 |
| A2 | 0.800 | 0.850 | 0.900 |
| b | 0.250 | 0.300 | 0.350 |
| c | 0.080 | 0.115 | 0.150 |
| D | 1.200 | 1.300 | 1.400 |
| E | 1.600 | 1.700 | 1.800 |
| E1 | 2.500 | 2.600 | 2.700 |
| L | 0.475 (REF) | | |
| L1 | 0.250 | 0.325 | 0.400 |