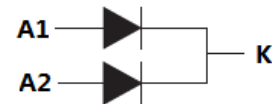
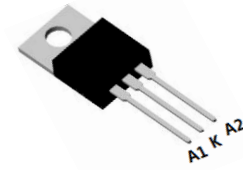
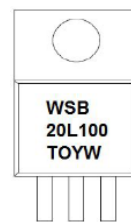


WSB20L100T
Power Schottky Barrier Rectifier
www.sh-willsemi.com
Features

- 2x10A average rectified forward current
- Low forward voltage and Low leakage current
- High Junction temperature
- High forward and reverse Surge capability


Circuit
Applications

- High frequency switch model power supplies
- DC-DC Convertors, Power adapters



WSB20L100 = Device code
TO = Special code
Y =Year
W =Week (A~z)

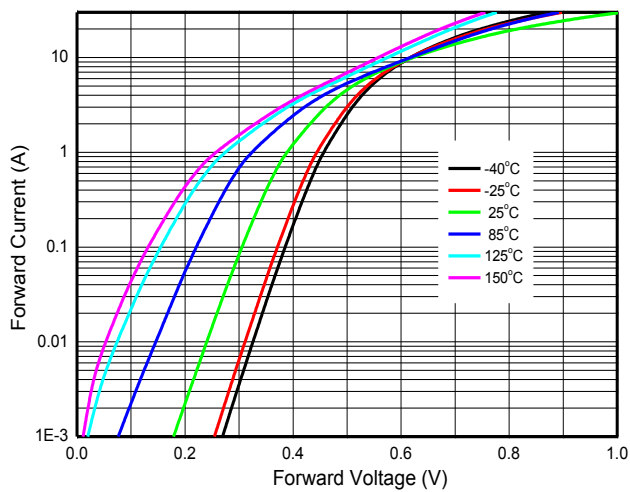
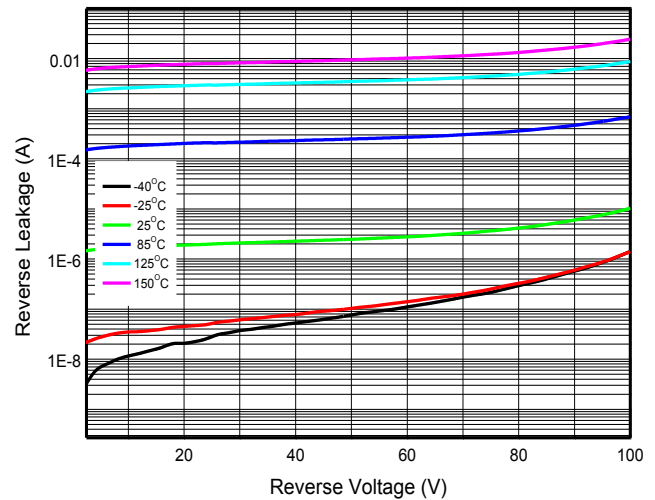
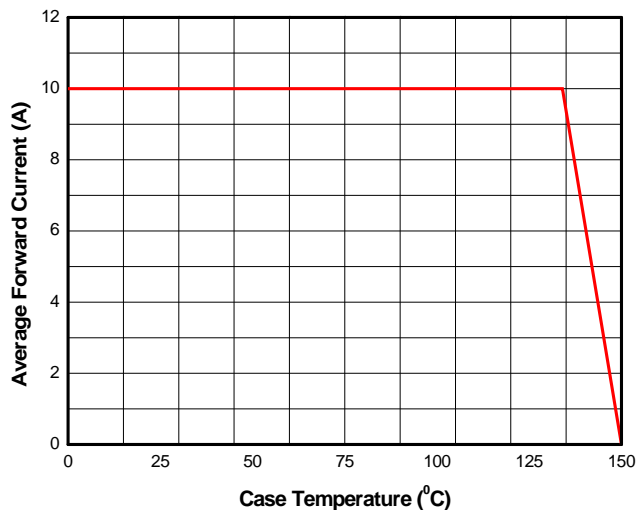
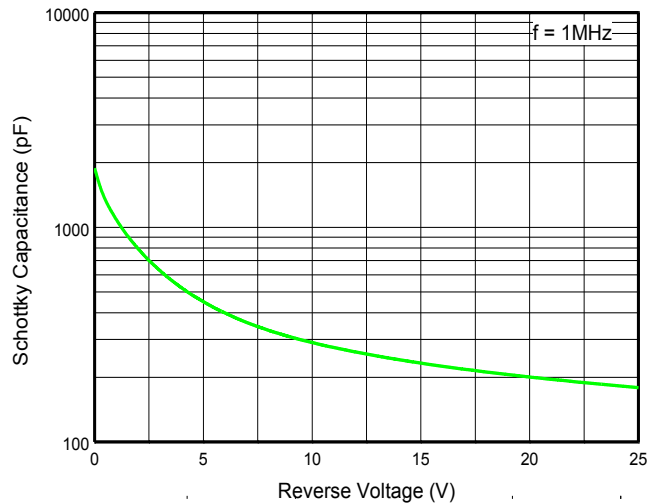
Marking

| Absolute maximum ratings | | | | |
|--------------------------------------------------------------------------|------------|---------------|--------------|---------------|
| Parameter | | Symbol | Value | Unit |
| Reverse voltage (repetitive peak) | | V_{RM} | 100 | V |
| Reverse voltage (DC) | | V_R | 100 | V |
| Average rectified forward current | Per diode | I_F | 10 | A |
| | Per device | I_F | 20 | A |
| Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave | | I_{FSM} | 200 | A |
| Junction temperature | | T_J | 150 | $^{\circ}C$ |
| Operating temperature | | T_{opr} | -55 ~ 150 | $^{\circ}C$ |
| Storage temperature | | T_{stg} | -55 ~ 150 | $^{\circ}C$ |
| Thermal Resistance Ratings | | | | |
| Maximum Thermal Resistance Junction To case (Per leg) | TO-220 | R_{JC} | 2.0 | $^{\circ}C/W$ |

| Order information | | | |
|--------------------------|----------------|----------------|-------------------|
| Device | Package | Marking | Units/Tube |
| WSB20L100T-3/T | TO-220 | WSB20L100TOYW | 50 |

Electronics characteristics (Per diode, $T_A = 25^\circ\text{C}$)

| Parameter | Symbol | Condition | Min. | Typ. | Max. | Unit |
|---------------------------|--------|---------------------------------|------|------|------|---------------|
| Reverse Breakdown Voltage | V_R | $I_R=0.5\text{mA}$ | 100 | | | V |
| Forward voltage | V_F | $I_F=10\text{A}$ | | 0.6 | 0.7 | V |
| Reverse current | I_R | $V_R=100\text{V}$ | - | 11 | 100 | μA |
| Junction capacitance | C_J | $V_R=25\text{V}, F=1\text{MHz}$ | - | 180 | | pF |

Typical characteristics ($T_a=25^\circ\text{C}$, unless otherwise noted)

Forward voltage vs. Forward current

Reverse current vs. Reverse voltage

Forward Current Derating Curve

Junction capacitance vs. Reverse voltage

Package outline dimensions

TO-220

