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FAIRCHILD

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RB521S30 Schottky Barrier Diodes

Features

- Low Forward Voltage Drop
- Flat Lead, Surface Mount Device Under 0.70mm Height
- Extremely Small Outline Plastic Package SOD523F
- Moisture Level Sensitivity 1
- Pb-free Version and RoHS Compliant
- Matte Tin (Sn) Lead Finish
- Green Mold Compound

Cathode Anode



SOD-523F Band Indicates Cathode RB521S30 Marking : 2B

Absolute Maximum Ratings * T_A=25°C unless otherwise noted

| Symbol | Parameter | Value | Units |
|--------------------|--------------------------------------|-------------|-------|
| V _{RRM} | Maximum Repetitive Reverse Voltage | 30 | V |
| I _{F(AV)} | Average Rectified Forward Current | 200 | mA |
| TJ | Operating Junction Temperature Range | -55 to +125 | °C |
| T _{STG} | Storage Temperature Range | -55 to +125 | °C |

* These ratings are limiting values above which the serviceability of any semiconductor device may be impaired.

Thermal Characteristics

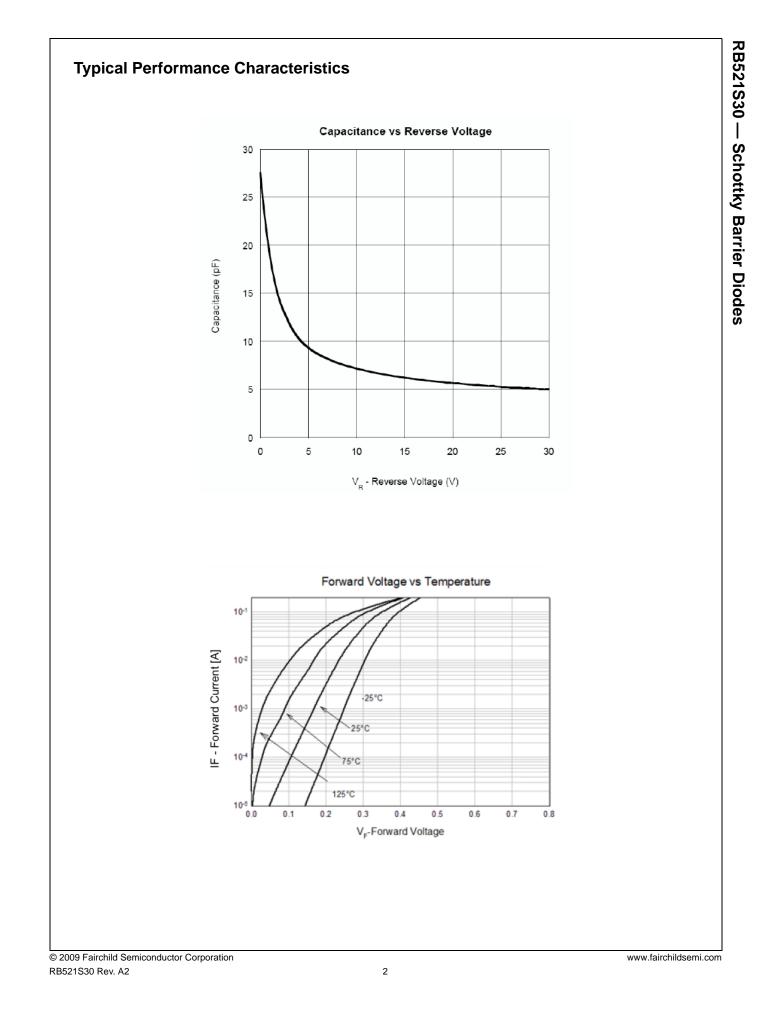
| Symbol | Parameter | Value | Units |
|---------------|---|-------|-------|
| PD | Total Device Dissipation (T _C =25°C) | 200 | mW |
| $R_{	hetaJA}$ | Thermal Resistance, Junction to Ambient | 500 | °C/W |

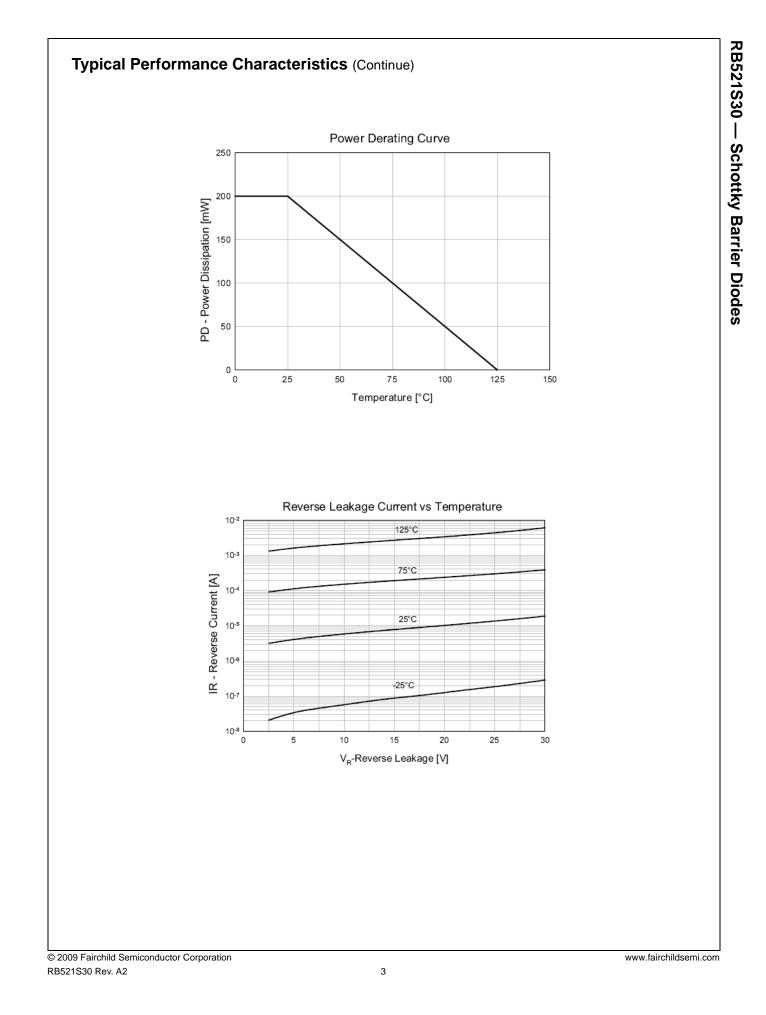
* Device mounted on FR-4 PCB minimum land pad.

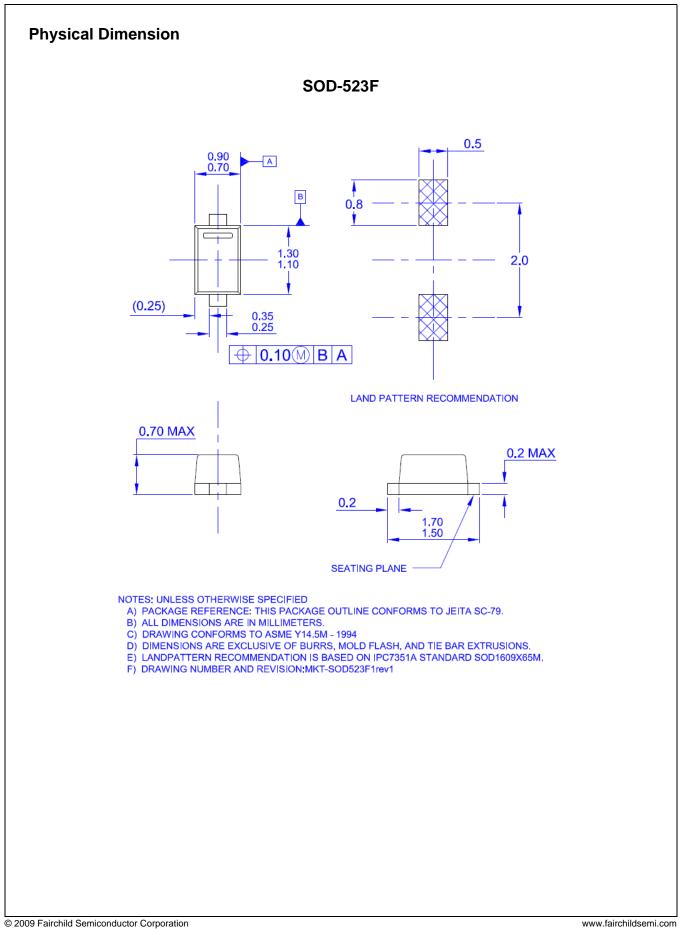
Electrical Characteristics $T_A=25^{\circ}C$ unless otherwise noted

| Symbol | Parameter | Test Condition | Min. | Тур. | Max. | Units |
|-----------------|-------------------------|-----------------------|------|------|------|-------|
| BV _R | Breakdown Voltage | I _R =500μA | 30 | | | V |
| I _R | Reverse Leakage Current | V _R =10V | | | 30 | μΑ |
| V _F | Forward Voltage | I _F =200mA | | | 0.5 | V |

RB521S30 — Schottky Barrier Diodes







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| Datasheet Identification | Product Status | Definition |
|--------------------------|-----------------------|---|
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| Preliminary | First Production | Datasheet contains preliminary data; supplementary data will be published at a later date. Fairchild Semiconductor reserves the right to make changes at any time without notice to improve design. |
| No Identification Needed | Full Production | Datasheet contains final specifications. Fairchild Semiconductor reserves the right to make changes at any time without notice to improve the design. |
| Obsolete | Not In Production | Datasheet contains specifications on a product that is discontinued by Fairchild Semiconductor. The datasheet is for reference information only. |
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