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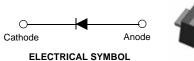
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## RB520S30 Schottky Barrier Diodes

### 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





September 2009

SOD-523F Band Indicates Cathode RB520S30 Marking : 1B

## Absolute Maximum Ratings \* T<sub>A</sub>=25°C unless otherwise noted

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

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

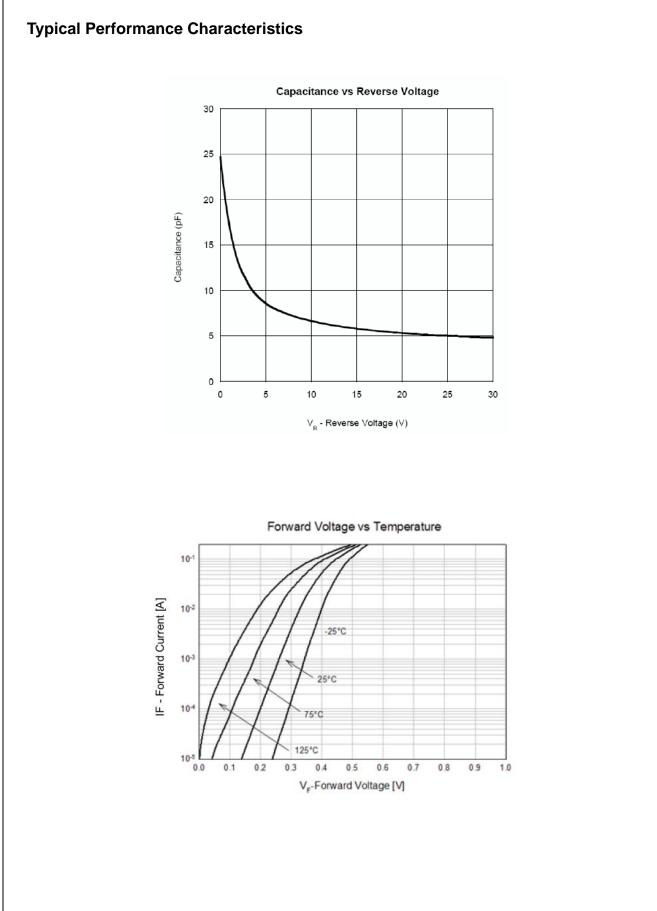
### **Thermal Characteristics**

Symbol	Parameter	Value	Units
PD	Total Device Dissipation (T <sub>C</sub> =25°C)	200	mW
$R_{ extsf{ heta}JA}$	Thermal Resistance, Junction to Ambient	500	°C/W

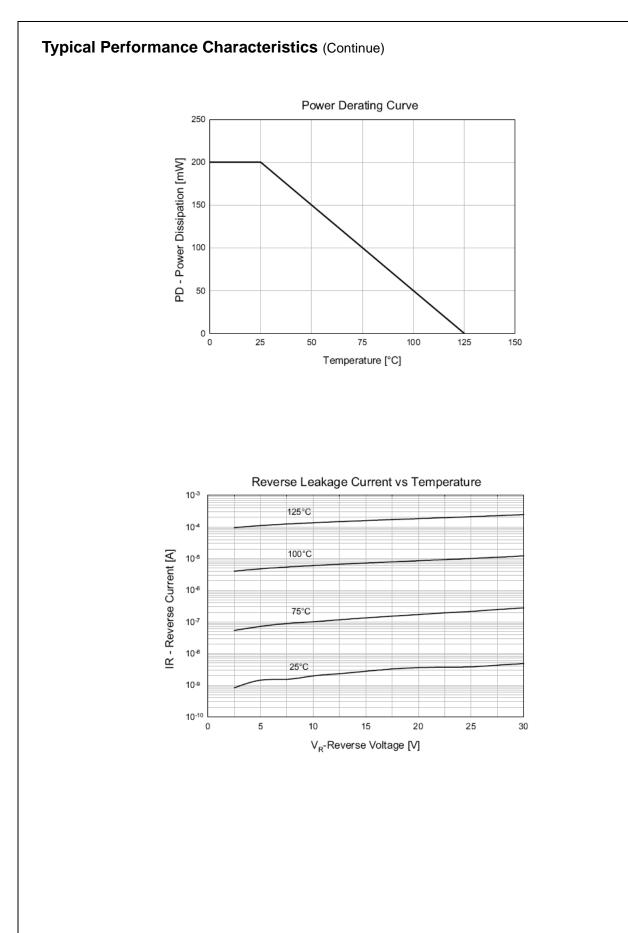
\* Device mounted on FR-4 PCB minimum land pad.

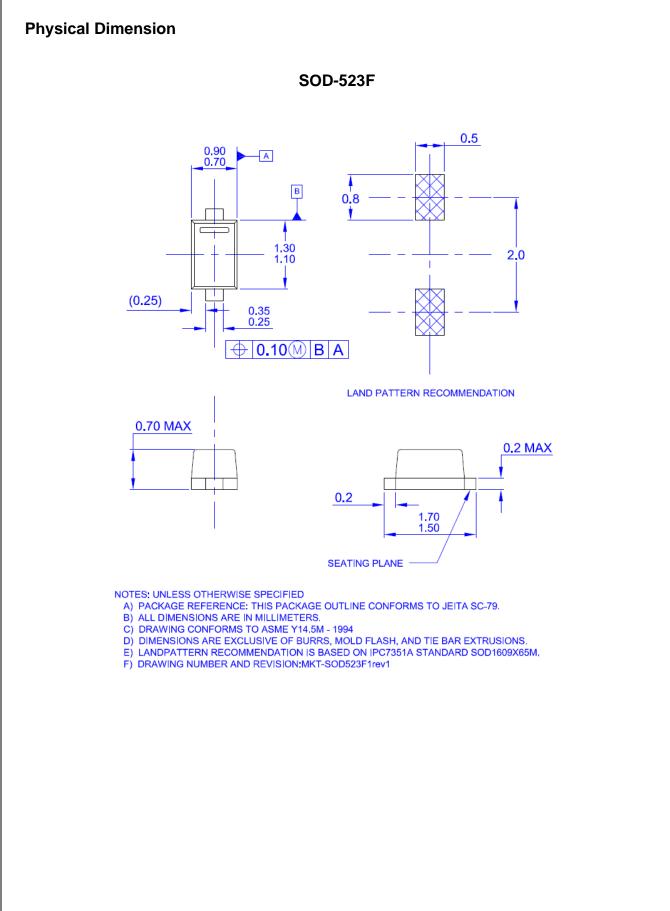
## **Electrical Characteristics** $T_A=25^{\circ}C$ unless otherwise noted

Symbol	Parameter	Test Condition	Min.	Тур.	Max.	Units
BV <sub>R</sub>	Breakdown Voltage	I <sub>R</sub> =500μA	30			V
I <sub>R</sub>	Reverse Leakage Current	V <sub>R</sub> =10V			1	μΑ
V <sub>F</sub>	Forward Voltage	I <sub>F</sub> =200mA			0.6	V



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RB520S30 — Schottky Barrier Diodes



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