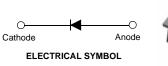


- Low Forward Voltage Drop
- Flat Lead, Surface Mount Device Under 0.70mm Height
- Extremely Small Outline Plastic Package SOD523F
- Moisture Level Sensitivity 1
- Pb-free Version and RoHS Compliant
- Matte Tin (Sn) Lead Finish
- Green Mold Compound





RB520S30 — Schottky Barrier Diodes

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

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
Т _Ј	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

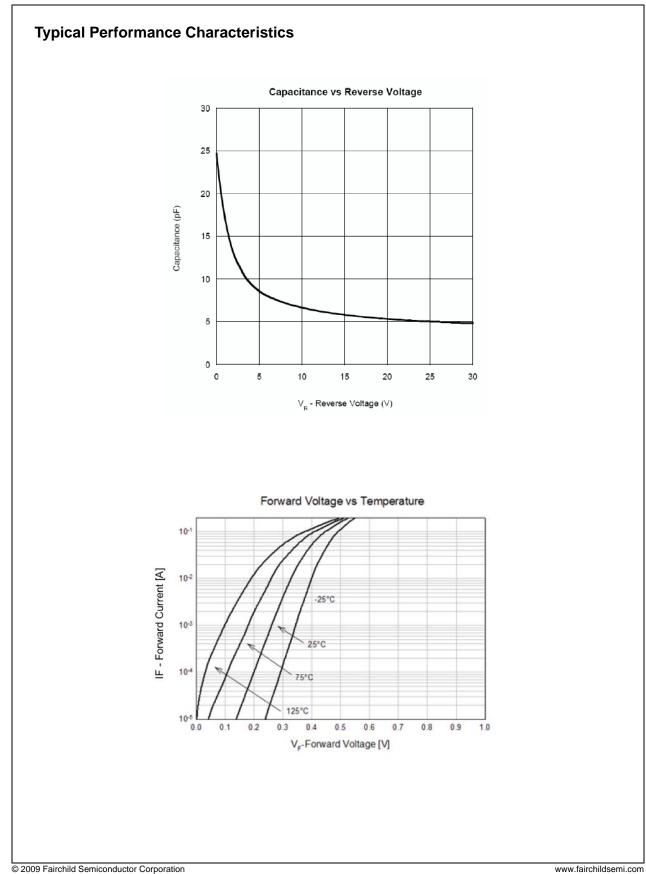
Symbol	Parameter	Value	Units	
PD	Total Device Dissipation (T _C =25°C)	200	mW	
$R_{ extsf{ heta}JA}$	Thermal Resistance, Junction to Ambient	500	°C/W	

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

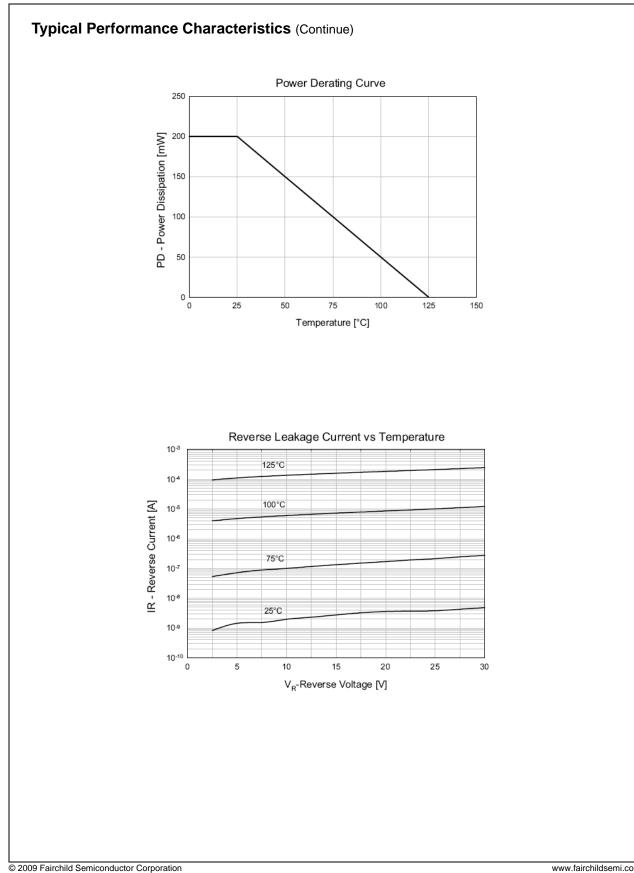
Electrical Characteristics T_A=25°C unless otherwise noted

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			1	μΑ
V _F	Forward Voltage	I _F =200mA			0.6	V

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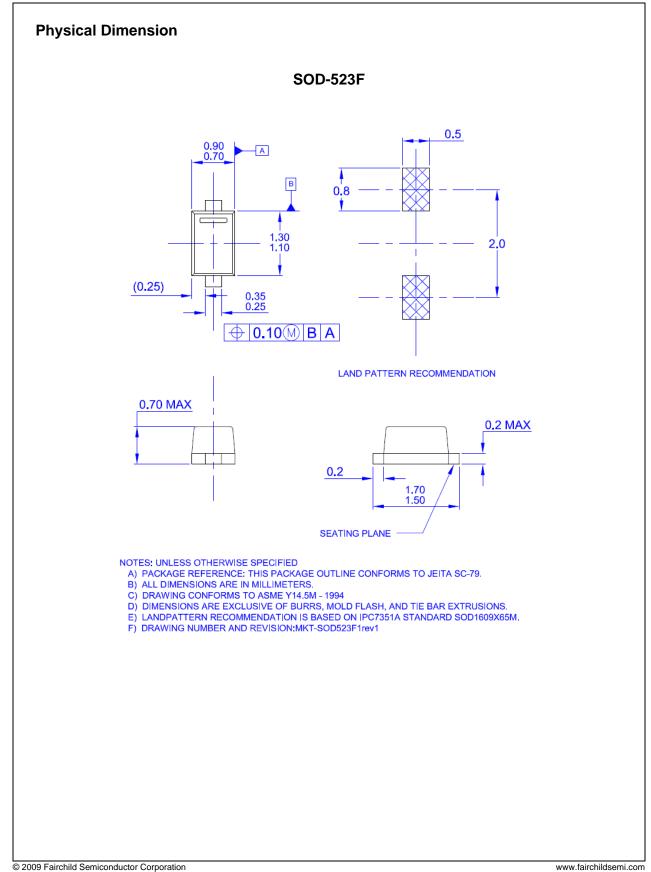


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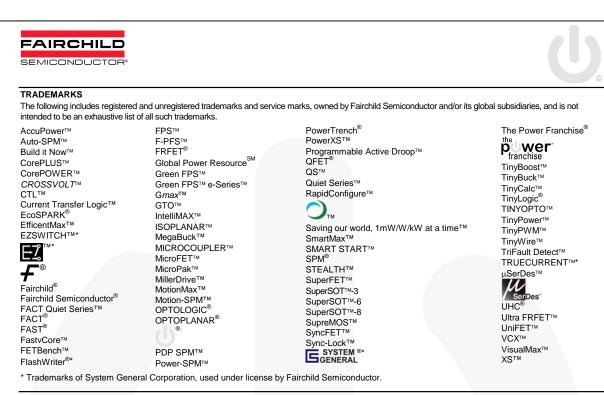


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No Identification Needed	Full Production	Datasheet contains final specifications. Fairchild Semiconductor reserves the right to make changes at any time without notice to improve the design.
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