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RB751S40 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



September 2009

SOD-523F Band Indicates Cathode RB751S40 Marking : 4B

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

Symbol	Parameter	Value	Units
V _{RRM}	Maximum Repetitive Reverse Voltage	40	V
I _{F(AV)}	Average Rectified Forward Current	30	mA
I _{FSM}	Non-Repetitive Peak Forward Current	500	mA
Τ _J	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

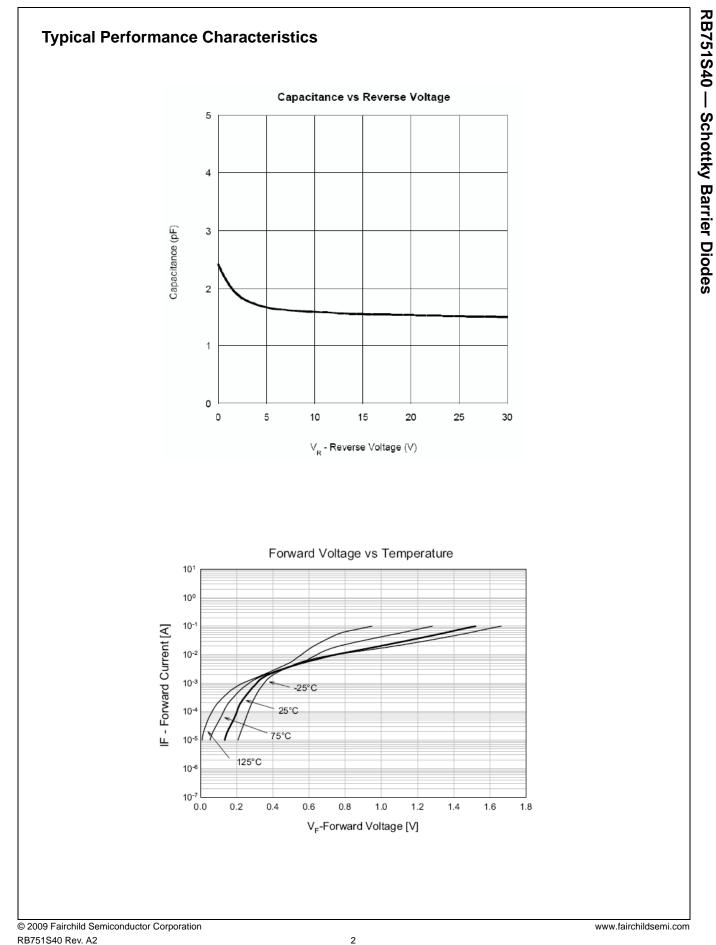
Symbol	Parameter	Value	Units
PD	Total Device Dissipation (T _C =25°C)	200	mW
$R_{ extsf{ heta}JA}$	Thermal Resistance, Junction to Ambient	500	°C/W

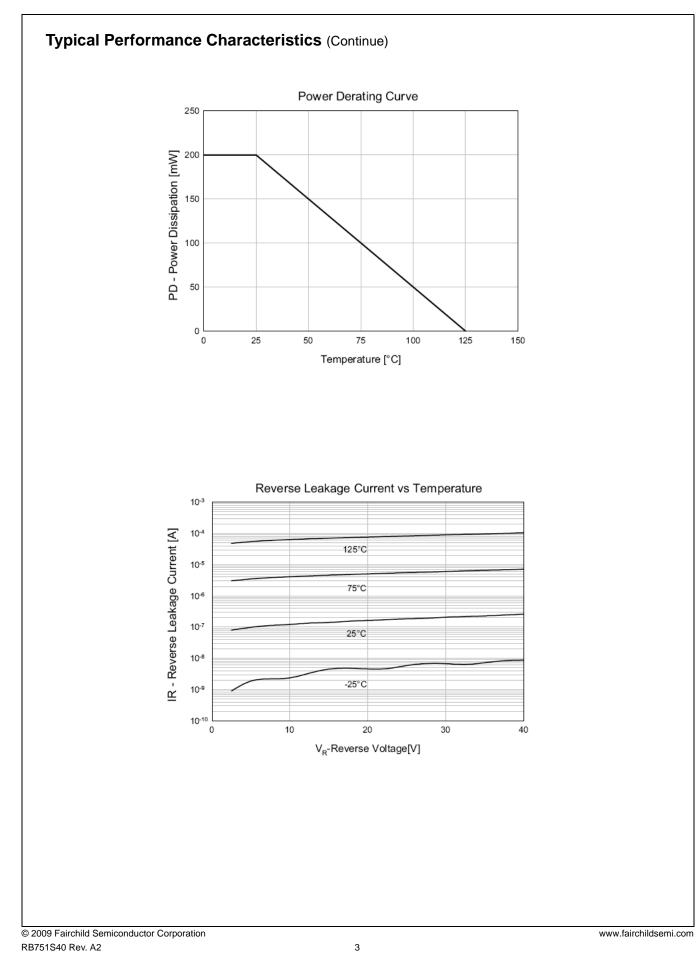
* Device mounted on FR-4 PCB minimum land pad.

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

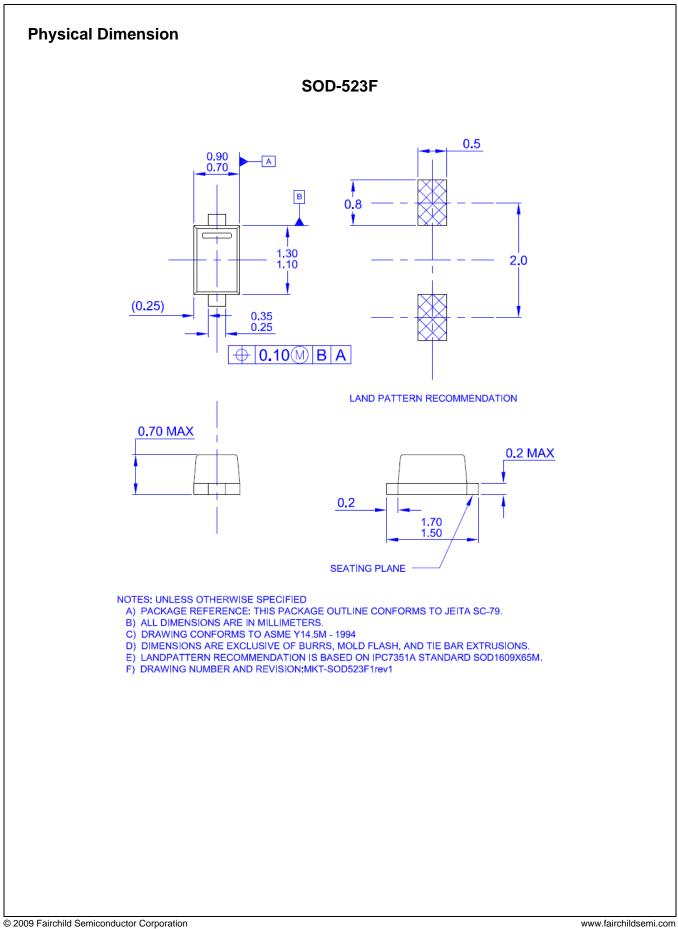
Symbol	Parameter	Test Condition	Min.	Тур.	Max.	Units
BV _R	Breakdown Voltage	I _R =10μΑ	30			V
I _R	Reverse Leakage Current	V _R =30V			0.5	μΑ
V _F	Forward Voltage	I _F =1mA			0.37	V

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