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RB751SL Schottky Barrier Diodes

Features

- Low Forward Voltage Drop
- Fast switching
- Very Small and Thin SMD package
- Profile height, 0.43mm max
- Footprint, 1.0 x 0.6mm



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Connection Diagram

Absolute Maximum Ratings * $T_A = 25^{\circ}C$ unless otherwise noted

Symbol	Parameter	Value	Unit
V _{RRM}	Maximum Repetitive Reverse Voltage	30	V
I _{F(AV)}	Average Rectified Forward Current	30	mA
I _{FSM}	Forward Surge Current (8.3mS Single Half Sine-Wave)	200	mA
PD	Power Dissipation	227	mW
$T_{J,}T_{STG}$	Operating Junction & Storage Temperature Range	-55 to +150	°C

* These ratings are limiting values above which the serviceability of the diode may be impaired. The factory should be consulted on applications involving pulsed or low duty cycle operations.

Thermal Characteristics

Symbol	Parameter	Value	Unit
$R_{ ext{ heta}JA}$	Thermal Resistance, Junction to Ambient *	550	°C/W

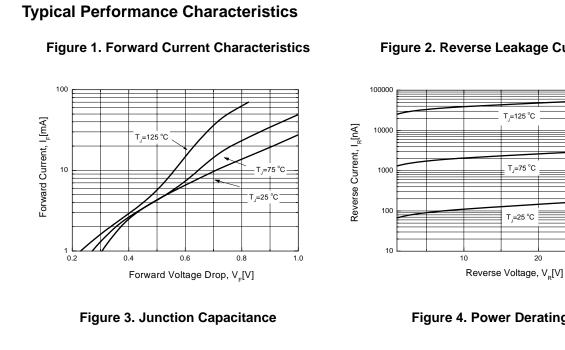
* Minimum land pad.

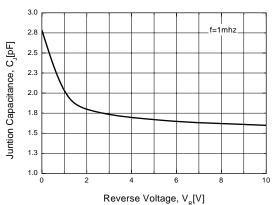
Electrical Characteristics TA=25°C unless otherwise noted

Symbol	Parameter	Test Conditions	Min.	Max.	Unit
V _R	Breakdown Voltage	I _R = 10μA	30		V
V _F	Forward Voltage	I _F = 1mA		370	mV
I _R	Reverse Leakage	V _R = 30V		0.5	μA
trr	Reverse Recovery Time	$I_F = I_R = 10$ mA, irr = 0.1 I_R		8.0	nS
Cj	Junction Capacitance	V _R = 1V, f = 1.0MHz		2.5	pF

October 2010

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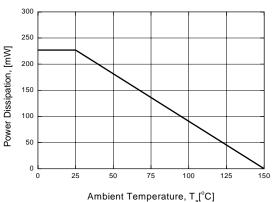
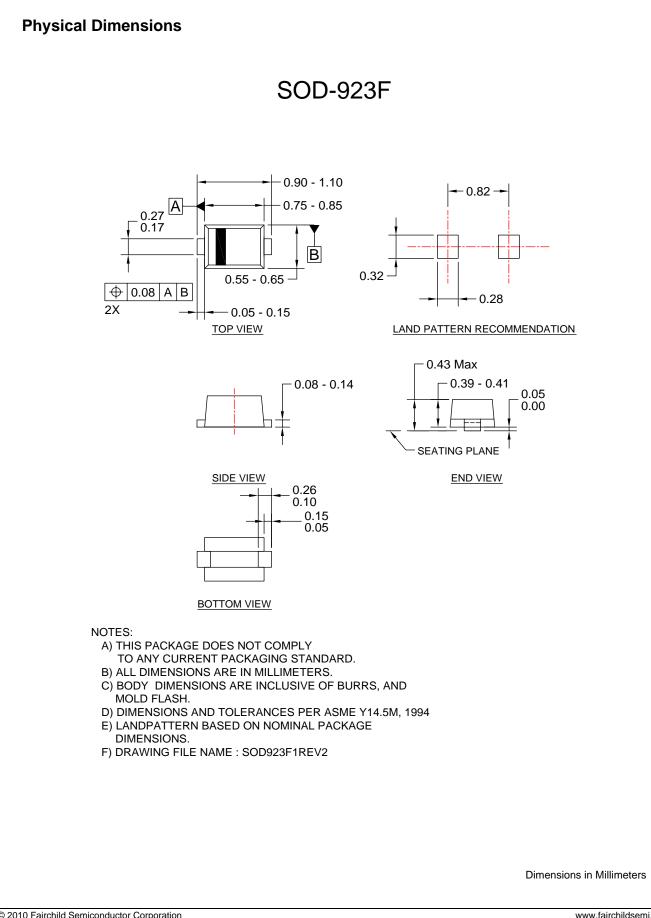


Figure 2. Reverse Leakage Current

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