BAS70SL — Schottky Barrier Diodes

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# BAS70SL 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



Connection Diagra	m
2 1	

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

Symbol	Parameter	Value	Unit
V <sub>RRM</sub>	Maximum Repetitive Reverse Voltage	70	V
I <sub>F(AV)</sub>	Average Rectified Forward Current	70	mA
I <sub>FSM</sub>	Forward Surge Current (8.3mS Single Half Sine-Wave)	100	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
$R_{\thetaJA}$	Thermal Resistance, Junction to Ambient *	550	°C/W

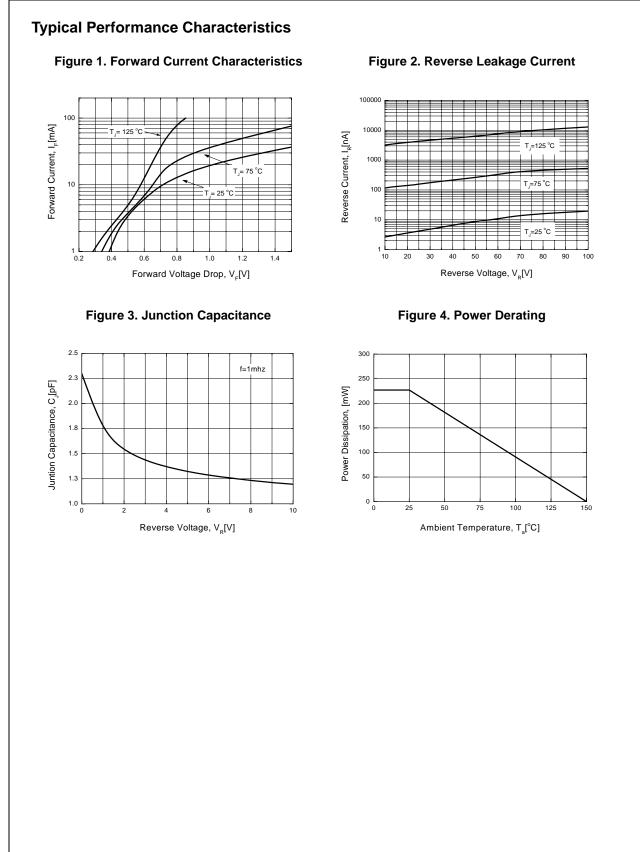
\* Minimum land pad.

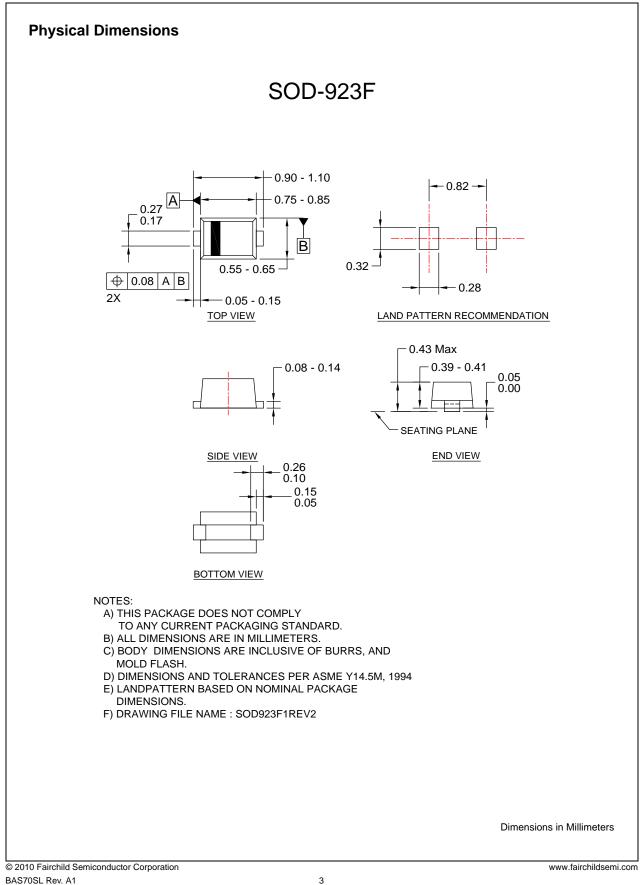
## **Electrical Characteristics** $T_A=25^{\circ}C$ unless otherwise noted

Symbol	Parameter	Test Conditions	Min.	Max.	Unit
V <sub>R</sub>	Breakdown Voltage	I <sub>R</sub> = 100μA	70		V
V <sub>F</sub>	Forward Voltage	I <sub>F</sub> = 1mA I <sub>F</sub> = 15mA		410 1000	mV mV
I <sub>R</sub>	Reverse Leakage	V <sub>R</sub> = 50V		0.2	μA
trr	Reverse Recovery Time	$I_F = I_R = 10$ mA, irr = $0.1I_R$		8.0	nS
Cj	Junction Capacitance	V <sub>R</sub> = 0, f = 1.0MHz		3.0	pF

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