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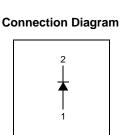
BAS16SL Small Signal Diodes

Features

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



SOD-923F Marking: AB



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

Symbol	Parameter	Value	Unit
V _{RRM}	Maximum Repetitive Reverse Voltage	85	V
I _{F(AV)}	Average Rectified Forward Current	150	mA
I _{FSM}	Forward Surge Current (8.3mS Single Half Sine-Wave)	500	mA
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

P _D Power Dissipation	227	mW
R _{0JA} Thermal Resistance, Junction to Ambient *	520	°C/W

* Minimum land pad.

Electrical Characteristics T_A=25°C unless otherwise noted

Symbol	Parameter	Test Conditions	Min.	Max.	Unit
V _R	Breakdown Voltage	I _R = 100μA	85		V
V _F	Forward Voltage	$I_{F} = 1mA$ $I_{F} = 10mA$ $I_{F} = 50mA$ $I_{F} = 150mA$		715 855 1.0 1.25	mV mV V V
I _R	Reverse Leakage	V _R = 75V V _R = 25V@150°C V _R = 75V@150°C		1.0 30 50	μΑ μΑ μΑ
trr	Reverse Recovery Time	$I_{\rm F} = I_{\rm R} = 10$ mA, irr = 0.11 R		8.0	nS
Cj	Junction Capacitance	V _R = 0, f = 1.0MHz		2.0	pF

October 2010

Typical Performance Characteristics

Figure 1. Forward Current Characteristics

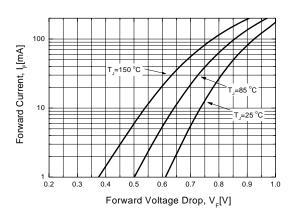


Figure 3. Junction Capacitance

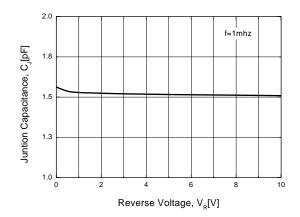


Figure 2. Reverse Leakage Current

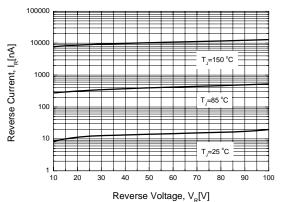
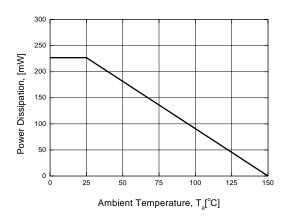
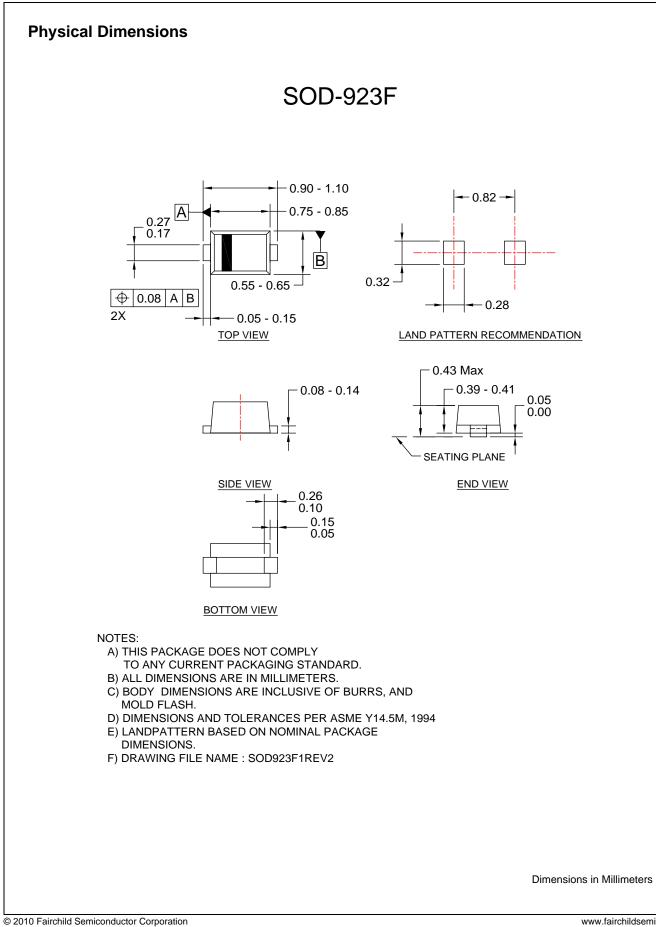


Figure 4. Power Derating



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