

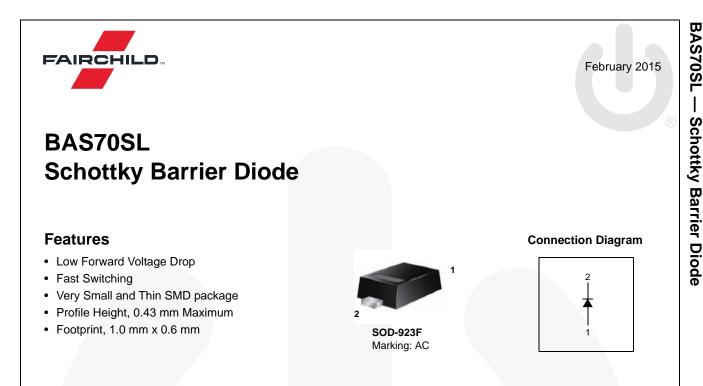
Is Now Part of



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Ordering Information

Part Number Top Mark		Package	Packing Method
BAS70SL	AC	SOD-923F 2L	Tape and Reel

Absolute Maximum Ratings^{(1), (2)}

Stresses exceeding the absolute maximum ratings may damage the device. The device may not function or be operable above the recommended operating conditions and stressing the parts to these levels is not recommended. In addition, extended exposure to stresses above the recommended operating conditions may affect device reliability. The absolute maximum ratings are stress ratings only. Values are at $T_A = 25^{\circ}$ C unless otherwise noted.

Symbol	Parameter	Value	Unit
V _{RRM}	Maximum Repetitive Reverse Voltage	70	V
I _{F(AV)}	Average Rectified Forward Current	70	mA
I _{FSM}	Forward Surge Current (8.3 ms Single Half-Sine-Wave)	100	mA
T _J , T _{STG}	Operating Junction and Storage Temperature Range	-55 to +150	°C

Notes:

- 1. These ratings are based on a maximum junction temperature of 150°C.
- These are steady-state limits. Fairchild Semiconductor should be consulted on applications involving pulsed or low-duty-cycle operations.

BAS70SL — Schottky Barrier Diode

Thermal Characteristics

Values are at $T_A = 25^{\circ}C$ unless otherwise noted.

ĺ	Symbol	Parameter	Value	Unit
	PD	Power Dissipation	227	mW
	$R_{ extsf{ heta}JA}$	Thermal Resistance, Junction-to-Ambient ⁽³⁾	550	°C/W

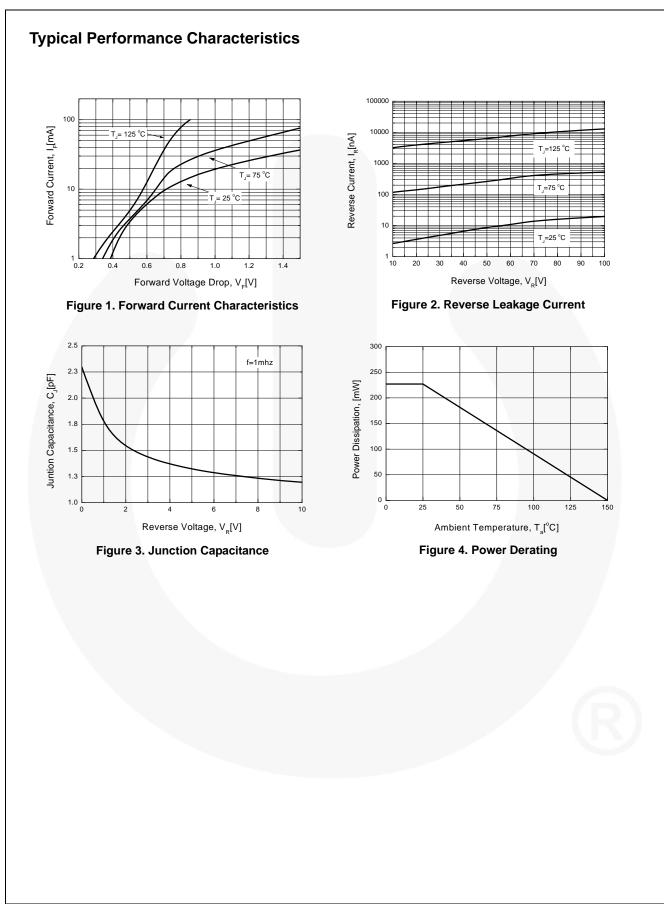
Note:

3. Minimum land pad.

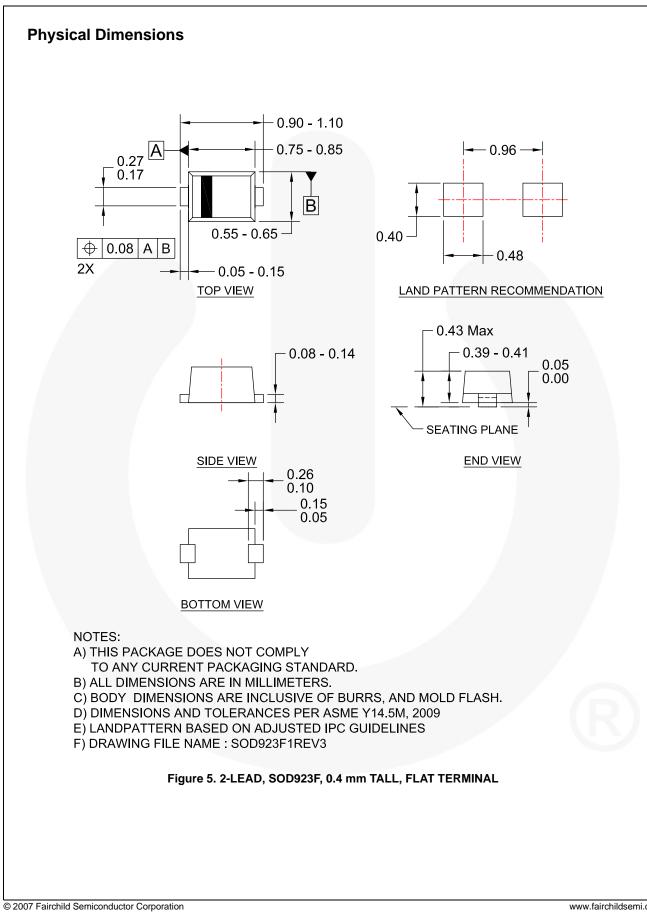
Electrical Characteristics

Values are at $T_A = 25^{\circ}C$ unless otherwise noted.

Symbol	Parameter	Conditions	Min.	Max.	Unit
V _R	Breakdown Voltage	I _R = 100 μA	70		V
V _F	Forward Voltage	I _F = 1 mA		410	mV
		I _F = 15 mA		1000	mV
I _R	Reverse Leakage	V _R = 50 V		0.2	μΑ
t _{rr}	Reverse Recovery Time	$I_F = I_R = 10 \text{ mA}, i_{rr} = 0.1I_R$		8.0	nS
CJ	Junction Capacitance	V _R = 0, f = 1.0 MHz		3.0	pF



BAS70SL — Schottky Barrier Diode



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