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• Footprint, 1.0 mm x 0.6 mm

SOD-923F Marking: AA

Ordering Information

Part Number Top Mark		Package	Packing Method
BAS40SL	AA	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	40	V
I _{F(AV)}	Average Rectified Forward Current	100	mA
I _{FSM}	Forward Surge Current (8.3 ms Single Half-Sine-Wave)	600	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.
- 2. These are steady-state limits. Fairchild Semiconductor should be consulted on applications involving pulsed or low-duty-cycle operations.

BAS40SL — 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

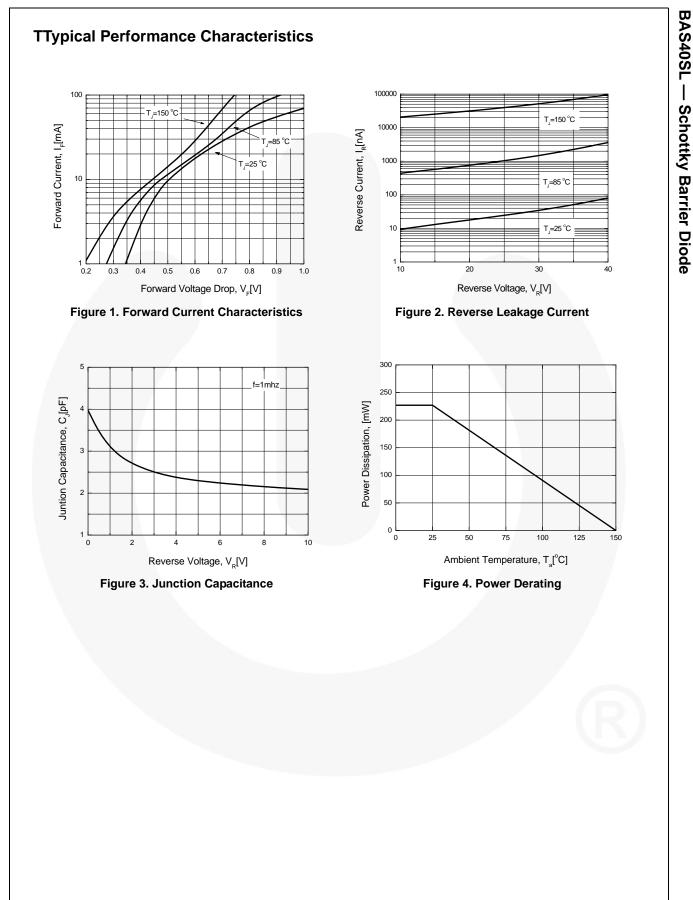
Note:

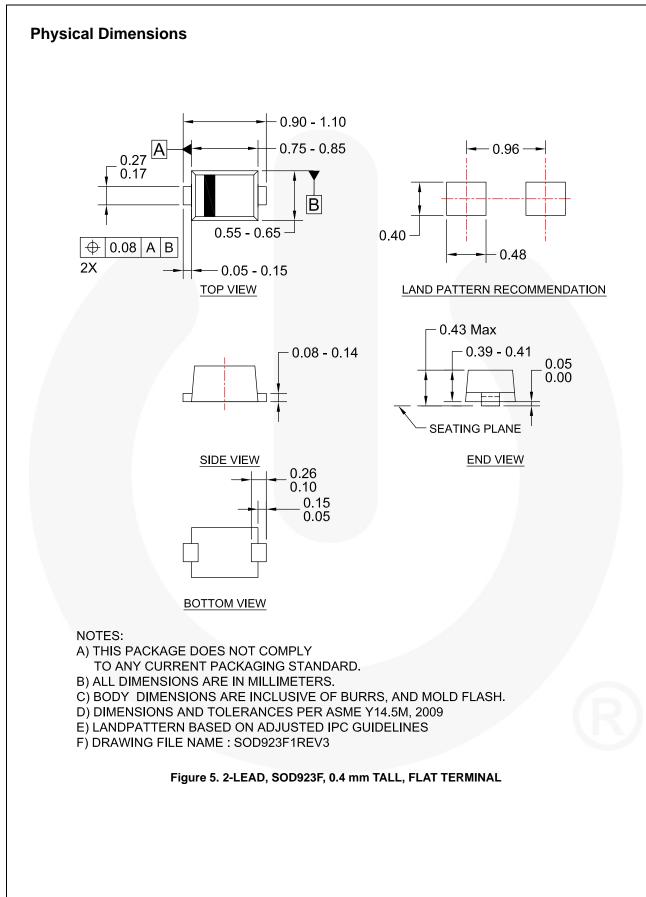
3. Minimum land pad.

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 = 10 μA	40		V
V _F	Forward Voltage	I _F = 1 mA		380	mV
		I _F = 40 mA		1000	mV
I _R	Reverse Leakage	V _R = 30 V		0.2	μA
t _{rr}	Reverse Recovery Time	$I_{\rm F} = I_{\rm R} = 10 \text{ mA}, \text{i}_{\rm rr} = 0.1 I_{\rm R}$		8.0	nS
CJ	Junction Capacitance	V _R = 0, f = 1.0 MHz		5.0	pF





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Preliminary	First Production	Datasheet contains preliminary data; supplementary data will be published at a later date. Fairchild Semiconductor reserves the right to make changes at any time without notice to improve design.	
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