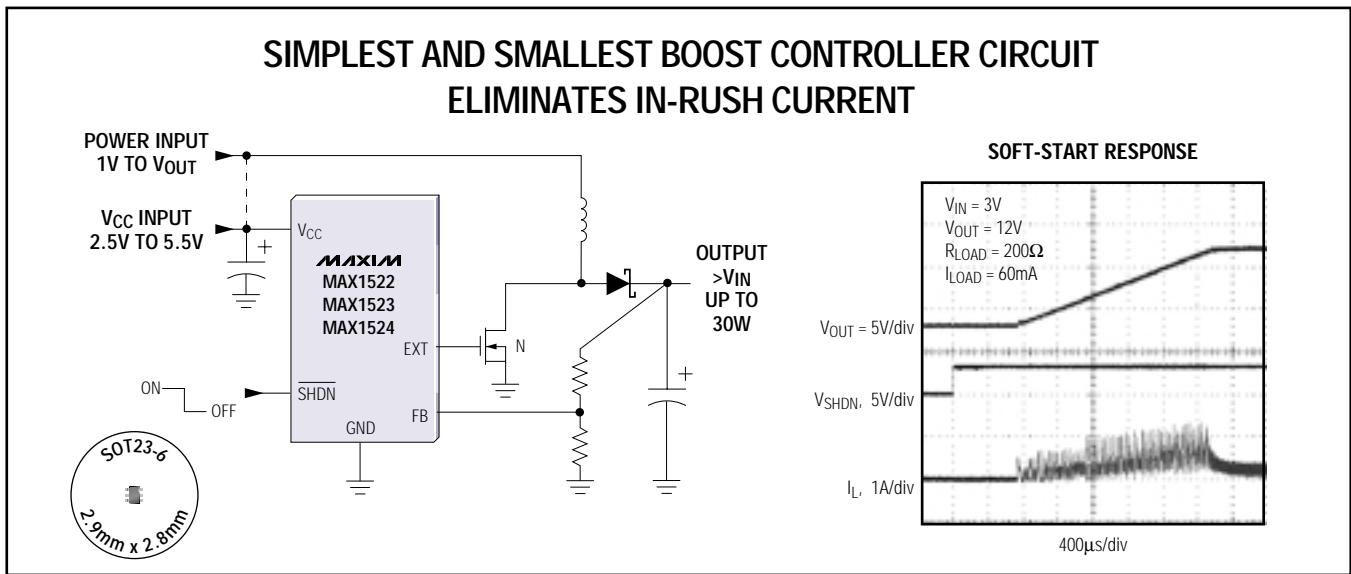


# SIMPLEST SOT23 STEP-UP CONTROLLERS USE FEWEST COMPONENTS

## Built-In Soft-Start Eliminates In-Rush Current Spikes & $R_{SENSE}$ Resistor

Use the MAX1522–MAX1524 DC-DC controllers to build the simplest and smallest step-up circuits. These SOT23 controllers have an internal digital soft-start that eliminates the in-rush current spikes that shorten useful battery life. Soft-start also permits a smaller input capacitor. These controllers also eliminate the sense resistor to increase efficiency while saving space and cost. Finally, they switch at up to 1MHz, permitting use of a small inductor.



Built-in soft-start eliminates in-rush current spikes, permitting use of a smaller and lower cost input capacitor and inductor. The costly sense resistor is also eliminated.

- ◆ Smallest, Simplest, Lowest Cost Step-Up Circuits
- ◆ No In-Rush Current Spikes
- ◆ >90% Efficiency
- ◆ Up to 1MHz Switching Frequency
- ◆ 25 $\mu A$  Quiescent Supply Current
- ◆ 1.5V Guaranteed Start-Up (MAX1524)
- ◆ Output Fault Protection
- ◆ Evaluation Kit Available to Speed Designs



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