

## Fixed Output Step-Down Switching Voltage Regulator Provides Desirable Transient Response



Fairchild Semiconductor's FAN5358 is a step-down switching voltage regulator that delivers a fixed output from an input voltage supply of 2.7 V to 5.5 V. Using a proprietary architecture with synchronous rectification, the device is capable of delivering 500 mA and maintaining a very high efficiency of over 80 percent at load currents as low as 1 mA. At moderate and light loads, the FAN5358 uses pulse frequency modulation to operate the device in power-save mode, consuming low quiescent current (25  $\mu$ A typical). Even with such a low quiescent current, the device provides excellent transient response during large load swings. Additionally, in shutdown mode the supply current drops below 1  $\mu$ A, reducing power consumption. The The device is appropriate for applications in cell phones, smartphones, 3G/4G data cards, as well as tablets, ultra-mobile PCs and Netbooks.

### Fairchild Semiconductor

888-522-5372, [www.fairchildsemi.com](http://www.fairchildsemi.com) [1]

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[1] <http://www.fairchildsemi.com>