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Maxim Products > Power Supplies and Battery Management

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MAX5035

1A, 76V, High-Efficiency MAXPower Step-Down DC-DC Converter

DESCRIPTION

The MAX5035 easy-to-use, high-efficiency, high-voltage, step-down DC-DC converter operates from an input voltage up to 76V and consumes only 350µA quiescent current at no load. This pulse-width modulated (PWM) converter operates at a fixed 125kHz switching frequency at heavy loads, and automatically switches to pulse-skipping mode to provide low quiescent current and high efficiency at light loads. The MAX5035 includes internal frequency compensation simplifying circuit implementation. The device uses an internal low-on-resistance, high-voltage, DMOS transistor to obtain high efficiency and reduce overall system cost. This device includes undervoltage lockout, cycle-by-cycle current limit, hiccup mode output short-circuit protection, and thermal shutdown.

The MAX5035 delivers up to 1A output current. External shutdown is included, featuring 10µA (typ) shutdown current. The MAX5035A/B/C versions have fixed output voltages of 3.3V, 5V, and 12V, respectively, while the MAX5035D features an adjustable output voltage from 1.25V to 13.2V.

The MAX5035 is available in space-saving 8-pin SO and 8-pin plastic DIP packages and operates over the industrial (0°C to +85°C) temperature range.

KEY FEATURES

- Wide 7.5V to 76V Input Voltage Range
- Fixed (3.3V, 5V, 12V) and Adjustable (1.25V to 13.2V) Versions
- 1A Output Current
- Efficiency Up to 94%
- Internal 0.4Ω High-Side DMOS FET
- 350µA Quiescent Current at No Load, 10µA Shutdown Current
- Internal Frequency Compensation
- Fixed 125kHz Switching Frequency
- Thermal Shutdown and Short-Circuit Current Limit
- 8-Pin SO and PDIP Packages

KEY SPECIFICATIONS: Switchmode DC-DC Power Supplies Min. Max. Min. Max. Max. Preset Typ. Op. Op. Part Adj. Adj. Inductor Current Price V_{IN} VOUT Outputs Package VIN ICC IOUT Freq. Range VOUT Number VOUT Based Regulator @ 1k (kHz) (°C) (V) (V) (mA) (V) (A) (V) (V) +/-3% 3.3 Hiccup Pulse-by- \$1.90 8/PDIP.300 0 to MAX5035 6.5 76 0.5 5 1.25 13.2 mode short-125 Yes 1 8/SO.150 +85pulse 12 circuit protection

LINKS TO MORE INFORMATION

- Printed Data Sheet: (19-2988; Rev 0; Rev 2003-11-05)
- Complete Data Sheet: (PDF 392k): Download or or E-MAIL
- Evaluation Kit: MAX5035EVKIT

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Request Samples: MAX5035 # Samples Cart

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APPLICATIONS

- Consumer Electronics
- Distributed Power
 - Industrial

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MAX5035 1A, 76V, High-Efficiency MAXPower Step-Down DC-DC Converter

- Price and Availability
- MAX5035 At-A-Glance

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RELATED PRODUCTS

MAX5033 500mA, 76V, High-Efficiency, MAXPower Step-Down DC-DC Converter - DESCRIPTION

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