

Conv DC-DC 4V to 40V Step Down Single-Out 0.8V to 28V 3.5A Automotive 8-Pin HSOIC EP Tube



Images are for reference only

Manufacturer: [Texas Instruments, Inc](#)

Package/Case: SOP8

Product Type: Power Management ICs

RoHS: RoHS Compliant/Lead free 

Lifecycle: Active

[Inquiry](#)

General Description

The LMR14030 is a 40 V, 3.5 A step down regulator with an integrated high-side MOSFET. With a wide input range from 4 V to 40 V, it's suitable for various applications from industrial to automotive for power conditioning from unregulated sources. The regulator's quiescent current is 40 μ A in Sleep-mode, which is suitable for battery powered systems. An ultra-low 1 μ A current in shutdown mode can further prolong battery life. A wide adjustable switching frequency range allows either efficiency or external component size to be optimized. Internal loop compensation means that the user is free from the tedious task of loop compensation design. This also minimizes the external components of the device. A precision enable input allows simplification of regulator control and system power sequencing. The device also has built-in protection features such as cycle-by-cycle current limit, thermal sensing and shutdown due to excessive power dissipation, and output overvoltage protection.

Key Features

4 V to 40 V Input Range

3.5 A Continuous Output Current

90 mΩ High-Side MOSFET

Minimum Switch-On Time: 75 ns

Current Mode Control

Adjustable Switching Frequency from 200 kHz to

2.5 MHz

Frequency Synchronization to External Clock

Internal Compensation for Ease of Use

High Duty Cycle Operation Supported

Precision Enable Input

1 μA Shutdown Current

External Soft-start

Thermal, Overvoltage and Short Protection

8-Pin HSOIC with PowerPAD Package

Recommended For You

LM2637M

Texas Instruments, Inc

SOP24

LM5116MH

Texas Instruments, Inc

TSSOP20

LM234Z-3

Texas Instruments, Inc

TO-92

LM27761DSGR

Texas Instruments, Inc

WSO8

LM74700QDBVRQ1

Texas Instruments, Inc

SOT23-6

LM2991S

Texas Instruments, Inc

TO-263

LM74800QDRRRQ1

Texas Instruments, Inc

WSO-12

LMR14030SDDAR

Texas Instruments, Inc

SOP8

LM2940CT-12

Texas Instruments, Inc

TO-220

LM536035QPWPTQ1

Texas Instruments, Inc

HTSSOP-16

LM5575MH

Texas Instruments, Inc

TSSOP16

LM536013QDSXTQ1

Texas Instruments, Inc

WSO-10

LM5160QPWRQ1

Texas Instruments, Inc

HTSSOP14

LM5576MH

Texas Instruments, Inc

TSSOP20

LMQ61460AFSQRJRRQ1

Texas Instruments, Inc

VQFN-14