
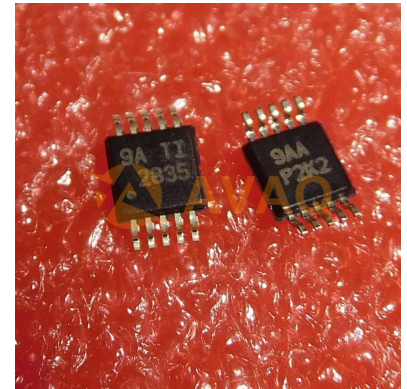


Op Amp Dual Low Power Amplifier R-R O/P 5.5V 10-Pin VSSOP T/R

Manufacturer:	Texas Instruments, Inc
Package/Case:	MSOP10
Product Type:	Amplifier ICs
RoHS:	RoHS Compliant/Lead free 
Lifecycle:	Active



Images are for reference only

[Inquiry](#)

General Description

The TPS650250 is an integrated Power Management IC for applications powered by one Li-Ion or Li-Polymer cell, which require multiple power rails. The TPS650250 provides three highly efficient, step-down converters targeted at providing the core voltage, peripheral, I/O and memory rails in a processor based system. All three step-down converters enter a low power mode at light load for maximum efficiency across the widest possible range of load currents. The converters can be forced into fixed frequency PWM mode by pulling the MODE pin high.

The TPS650250 also integrates two general purpose 200mA LDO voltage regulators, which are enabled with an external input pin. Each LDO operates with an input voltage range between 1.5V and 6.5V allowing them to be supplied from one of the step-down converters or directly from the battery. The output voltage of the LDOs can be set with an external resistor divider for maximum flexibility. Additionally there is a 30mA LDO typically used to provide power in a processor based system to a voltage rail that is always on. TPS650250 comes in a small 5mm x 5mm 32-pin QFN package (RHB).

Key Features

Qualified for Automotive Applications

1.6A, 97% Efficient Step-Down Converter for System Voltage (VDCDC1)

3.3V or 2.8V or Adjustable

1.8V or 2.5V or Adjustable

0.8A, 90% Efficient Step-Down Converter for Processor Core (VDCDC3)

Adjustable Output Voltage on VDCDC3

30mA LDO for Vdd_alive

2 × 200mA General Purpose LDOs (LDO1 and LDO2)

Dynamic Voltage Management for Processor Core

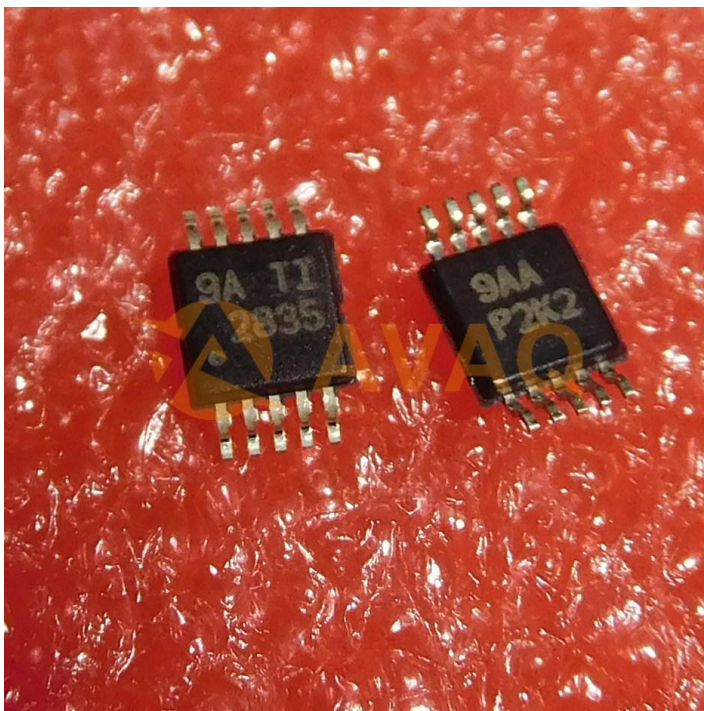
LDO1 and LDO2 Voltage Externally Adjustable

Separate Enable Pins for Inductive Converters

2.25MHz Switching Frequency

85μA Quiescent Current

Thermal Shutdown Protection



Recommended For You

OPA445BM

Texas Instruments, Inc

CAN

OPA1611AIDR

Texas Instruments, Inc

SOP8

OPA388QDBVRQ1

Texas Instruments, Inc

SOT23-5

OPA2365AQDRQ1

Texas Instruments, Inc
SOP8

OPA334AIDBVR

Texas Instruments, Inc
SOT23-6

OPA656U

Texas Instruments, Inc
SOP8

OPA360AIDCKR

Texas Instruments, Inc
SC70-6

LMI11H/NOPB

Texas Instruments, Inc
CAN8

OPA353UA

Texas Instruments, Inc
SOP8

LMI3700MX/NOPB

Texas Instruments, Inc
SOP16

OPA633KP

Texas Instruments, Inc
DIP8

OPA453FAKIWT

Texas Instruments, Inc
TO263-7

OPA4251UA

Texas Instruments, Inc
SOP14

LMV321M5X/NOPB

Texas Instruments, Inc
SOT23-5

OPA637AU

Texas Instruments, Inc
SOP-8