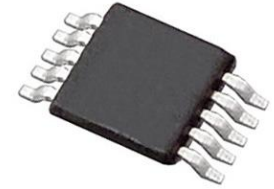


DDR Termination Regulator 4.75V to 5.25V 10-Pin HVSSOP EP Tube



Images are for reference only

[Inquiry](#)

Manufacturer: [Texas Instruments, Inc](#)

Package/Case: MSOP10

Product Type: Power Management ICs

RoHS: RoHS Compliant/Lead free 

Lifecycle: Active

General Description

The TPS5110 provides one PWM-mode synchronous buck regulator controller (SBRC) and one low drop-out (LDO) regulator controller. The TPS5110 supports a low-voltage/high-current power supply for I/O and other peripherals in modern digital systems. The SBRC of the TPS5110 automatically adjusts from PWM mode to SKIP mode to maintain high efficiency under all load conditions. The LDO controller drives an external N-channel power MOSFET that realizes fast response and ultra-low dropout voltage. A unique overshoot protection circuit prevents a voltage hump at fast load decreasing transients. The current protection circuit for SBRC detects the drain-to-source voltage drop across the low-side and high-side power MOSFET while it is conducting. Also, the current protection circuit has a temperature coefficient to compensate for the RDS(on) variation of the MOSFET. This resistor-less current protection simplifies the system design and reduces the external parts count. The LDO controller includes current-limit protection. Other features, such as undervoltage lockout, power good, overvoltage, undervoltage, and programmable short-circuit protection promote system reliability.

Key Features

Switching Mode Step-Down dc-to-dc Controller With Fast LDO Controller

Input Voltage Range

Output Voltage Range

Synchronous for High Efficiency

Precision VREF ($\pm 1\%$)

PWM Mode Control: Max. 500-kHz Operation

High-Speed Error Amplifier

Overcurrent Protection With Temperature Compensation Circuit

Overvoltage and Undervoltage Protection

Programmable Short-Circuit Protection

APPLICATIONS

Notebook PCs, PDAs

Consumer Game Systems

DSP Application

Recommended For You

TPD3S014DBVR

Texas Instruments, Inc

SOT23-6

TPS2065CDBVR

Texas Instruments, Inc

SOT23-5

TPS2557DRBT

Texas Instruments, Inc

SON8

TPS2042BDR

Texas Instruments, Inc

SOP8

TPS2051BDR

Texas Instruments, Inc

SOP8

TPL7407LPWR

Texas Instruments, Inc

TSSOP16

TPS23753APWR

Texas Instruments, Inc

TSSOP14

TPS2116DRLR

Texas Instruments, Inc

SOT5X3-8

TPS259460ARPWR

Texas Instruments, Inc

VQFN-10

TPS23751PWPR

Texas Instruments, Inc

HTSSOP16

TPS65150QPWPRQ1

Texas Instruments, Inc

HTSSOP-24

TPS2410PWR

Texas Instruments, Inc

TSSOP-14

TPS22914BYFPR

Texas Instruments, Inc

DSBGA4

TPS2115ADRBR

Texas Instruments, Inc

VSON8

TPS2113ADRBR

Texas Instruments, Inc

SON8