

Conv DC-DC 2.5V to 6V Non-Inv/Inv/Step Up/Step Down Single-Out 3V to 18.5V 3.2A Automotive 10-Pin VSON EP T/R

Manufacturer:	Texas Instruments, Inc	TPS61087QDRCRQ1 Image
Package/Case:	QFN10	Images are for reference only
Product Type:	Power Management ICs	Inquiry
RoHS:	RoHS Compliant/Lead free 	
Lifecycle:	Active	

General Description

The TPS61087-Q1 is a high-frequency, high-efficiency DC-to-DC converter with an integrated 3.2 A, 0.13- power switch that is capable of providing an output voltage up to 18.5 V. The selectable frequency of 650 kHz or 1.2 MHz allows the use of small external inductors and capacitors, and provides fast transient response. The external compensation allows optimizing the application for specific conditions. A capacitor connected to the soft-start pin minimizes inrush current at start-up.

Key Features

Qualified for automotive applications

Functional Safety-Capable
Documentation available to aid functional safety system design

2.5-V to 6-V Input voltage range

18.5-V Boost converter with 3.2-A switch current

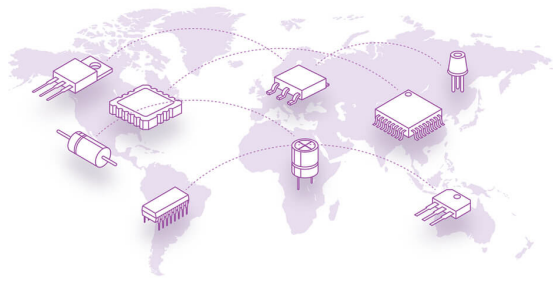
650-kHz or 1.2-MHz Selectable switching frequency

Adjustable soft start

Thermal shutdown

Undervoltage lockout

10-Pin VQFN package with wettable flanks



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