

LTC7103HUHE#TRPBF

Data Sheet

RFO

105V, 2.3A Low EMI Synchronous Step-Down Regulator with Fast Current Programming

Manufacturers	Analog Devices, Inc	
Package/Case	36-Lead QFN (5mm x 6mm x 0.75mm w/ EP)	EFFER JUNION
Product Type	Power Management ICs	
RoHS		
Lifecycle		Images are for reference only

General Description

The LTC7103-1 is a high efficiency, monolithic synchro-nous step-down DC/DC converter utilizing a constant frequency, average current mode control architecture. It operates from an input voltage range of 4.4V to 105V and provides an adjustable regulated output voltage from 1V to V_{IN} while delivering up to 2.3A of output current.

Please submit RFQ for LTC7103HUHE#TRPBF or Email to us: sales@oyaga.com We will contact you in 12 hours.

The LTC7103-1 features high frequency operation and a low minimum on-time that reduce inductor size and enable constant-frequency operation even at very high step-down ratios. In addition, the LTC7103-1 achieves the lowest possible dropout voltage with 100% maximum duty cycle operation. During light load operation, converter efficiency and output ripple can be optimized by selecting Burst Mode, pulse-skipping or forced continuous operation.

The LTC7103-1 includes accurate, high speed average current programming and monitoring without the need for an external sense resistor. Additional features include a bypass LDO to maximize efficiency, fixed or adjustable output voltage and loop compensation, and a wide array of protection features to enhance reliability.Compared to the LTC7103, the LTC7103-1 is pin compatible, except that it also offers continuous inductor current mode.

APPLICATIONS

Application

Wide V	Battery Chargers and CC/CV Supplies
IN	Automotive and Military Systems
Ultralow EMI/EMC Emissions: CISPR 25 Compliant	Industrial, Avionics and Heavy Equipment
2μΑ Ι	Medical Instruments and Telecommunication
Q	
IN	
OUT	
Fast and Accurate Output Current Programming and Monitoring with No External R	
SENSE	
Brick Wall Current Limit	
Low Minimum On-Time: 40ns	
Wide V	
OUT	
IN	
PassThru	
Programmable Fixed Frequency: 200kHz to 2MHz	
Eight, Pin-Selectable Fixed (1.2V to 15V) or Adjustable Output Voltages	
Selectable Continuous, Pulse-Skipping, or Low Ripple Burst Mode	
PLL Synchronization to External Clock	
EXTV	
CC	
OPTI-LOOP	
Input and Output Overvoltage Protection	
Thermally Enhanced (5mm \times 6mm) QFN Package	
AEC-Q100 Qualification in Process	

Related Products



LT3763EFE

Analog Devices, Inc TSSOP28



LTC4417IUF Analog Devices, Inc QFN-24







LTM8045EY#PBF Analog Devices, Inc BGA40









Analog Devices, Inc TO-3

LT1038CK

LTC3440EMS

Analog Devices, Inc MSOP10

LTC2990IMS#PBF

Analog Devices, Inc 10MSOP

LT4295IUFD#PBF

Analog Devices, Inc 28-WFQFN