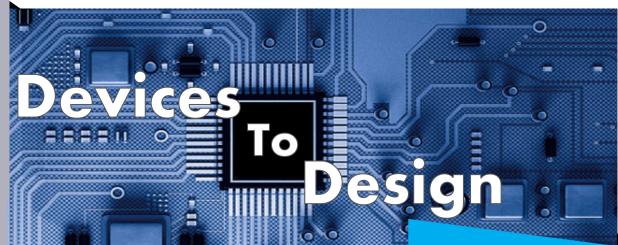
≤3PEAK

June 2024 - Volume #1

- Analog Signal Chain
- Power Management



Power Management

TPL8032

Avaliable in SOT-23-5

Applications:

- Low-Noise Power Supply
- High-Definition Imaging
- Infrared Image Equipment
- Medical Equipment

TPL8032 Quick Links

Product Page | Datasheet | Buy on Digikey

LDO Regulator High-PSRR, Ultra-Low Noise

Features:

Applications:

• Current Sense

Industrial Control

- Vin: 2.5V to 20V
- Adjustable: 1.22V to 18V Fixed 1.5V to 5V
- 300mA Max Iout
- 5.68-µVRMS Vout Noise
- Low Dropout: 550mV Max at 300mA
- High PSRR: 79dB at 1kHz, 56dB at 100kHz



Analog Signal Chain

Unity-Gain Difference Amplifier

±275 Common Mode Voltage

Features:

- ±1mV offset (max)
- Offset Voltage Drift 2uV/°C
- On Chip Resistors for Gain Error 0.03% Max
- **EMI Enhancement**
- -40°C to +125°C Operation Temp Range

Battery Voltage Monitor

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Power Management

TPQ05100

Synchronous Step-up Regulator 600mA, 0.9V - 5.5V Vin

Features:

- 260nA Ultra-Low IQ into Vout Pin
- 40nA Ultra-Low IQ into Vin Pin
- Typical 0.8A Switch Peak Current Limit
- True Disconnect During Shutdown
- 96% Efficiency from 10mA to 300mA Load



Applications:

- Battery Powered Devices
- Battery Powered Wearable
- Fiber Optical Modules
- Internet of Things Devices
- Battery Powered Meters

TPO05100 Quick Links

Product Page | Datasheet | Buy on Digikey

Welcome

This is the first edition of 3PEAK's Devices To Design newsletter, where we highlight our latest IC innovations! We are excited to detail how our performance devices support your applicationspecific needs and can take your designs specs to next level.

New to 3PEAK?

3PEAK is a global semiconductor supplier focused on the development of Analog and **Embedded Integrated Circuits.** We are committed to the research and development of highperformance, high-quality, and highly reliable integrated circuit products to provide customers with all-around solutions. Our products are targeted for industrial, automotive, and communication applications, as well as providing more than 40,000 IC alternatives to other semiconductor suppliers.

We partner with top-tier wafer fabs located in all major regions to manufacture our products, giving our customers quality, supply chain security, and cost savings.



June 2024 - Volume #1

- **Analog Signal Chain**
- **Embedded Processors**

13PEAK Devices To Design

Want to connect with 3PEAK or get product samples? Contact our teams!

See our list of **Sales Representatives**

See our list of **Global Distributors**

Power Management

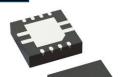
TPT1042V0

CAN FD Transceiver

Fault Protected High-Speed with Standby Mode

Features:

- Bus Fault Protection ±70V
- CAN FD Data Rates to 5Mbs
- Common-Mode Input Voltage: ±30 V
- IEC 61000-4-2 ESD Protection up to ±15 kV
- Meets ISO 11898-2:2016 and SAE J2284-1 to SAE J2284-5 **Physical Layer Standards**



Avaliable in DFN3X3-8L, SOP8

Applications:

- All Devices Supporting Loaded CAN Networks
- Field Industrial Automation
- Sensor and Driver Systems
- Building, Security Control Systems
- Energy Storage Systems
- Telecom Base Station Status and Control

TPT1042V Quick Links

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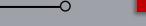
Avaliable in MSOP10

Applications:

- Data Acquisitions
- Specialty Instruments
- Industry Measurement and Control
- Medical Equipment
- Automatic Test Equipment

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TPC5180



Analog Signal Chain

18-Bit SAR Precision ADC Fully Differential Inputs, 300KSPS

Features:

- NO Missing Codes 18-Bit SAR up to 300KSPS
- Unipolar, Differential Analog Input -VREF to VREF
- High Linearity: DNL ±0.6LSB, INL ±2LSB
- THD: -110dB
- Analog Input CMRR 84dB at 1kHz
- SPI compatible, Daisy-Chain is supported

Power Management

TPR50





Low Noise, Low-Drift, 17 Orderable Options

Features:

- Low Temperature Coefficient; 2.5ppm/°C from -40°C to +125°C
- High Initial Accuracy: 0.05% Maximum
- Low Noise: 3uVpp/V from 0.1Hz to 10Hz
- Sink and Source up to ±10mA
- PSRR 80dB at 1kHz



Avaliable in MSOP8, SOP8

Applications:

- Battery Test Equipment
- Industry Control
- Precision Instrumentation
- Medical Equipment

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