

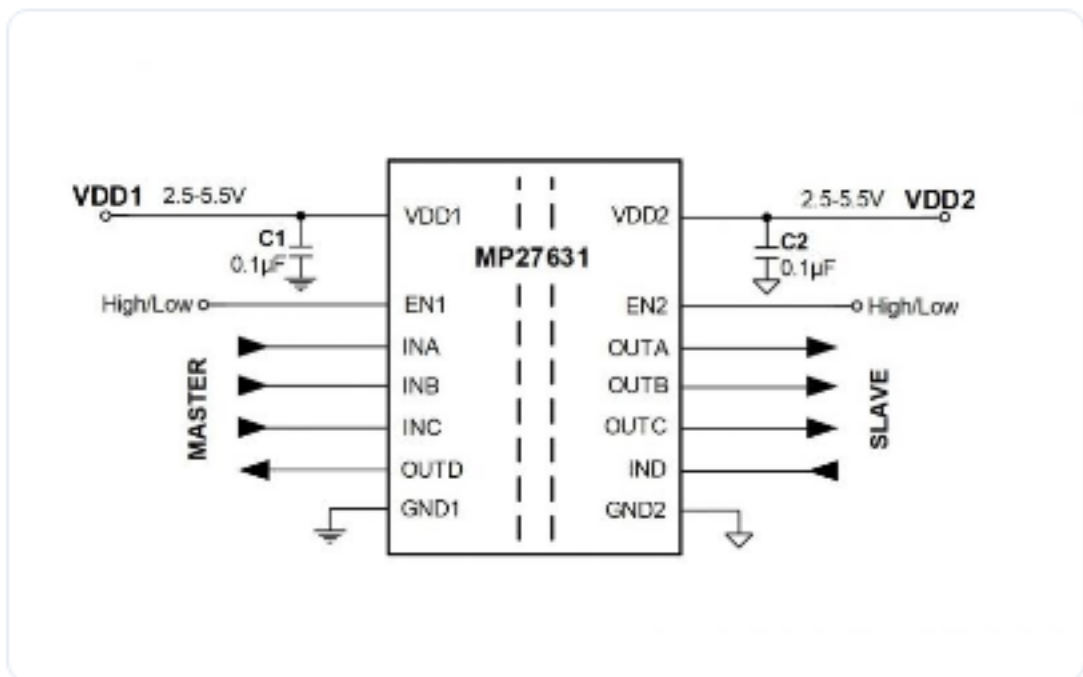
Products > Isolation > MP27631

MP27631

5kV_{RMS} Quad-Channel Digital Isolator

Pre-Release

Datasheet



Description

The MP27631 is a quad-channel digital isolator that replaces a traditional optocoupler isolator in applications. It can support up to 150Mbps of data rate signal isolation.

It employs capacitive isolation technology to provide up to 5kV_{RMS} of insulation voltage. The MP27631 offers a compact solution, with low power consumption and improved reliability compared to traditional optocoupler isolators.

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Features & Benefits

✓ Up to 5kV_{RMS} Isolation Voltage

✓ Supports DC to 150Mbps Data Rate

✓ 2.5V to 5.5V Input Voltage (V_{IN}) Range

✓ Up to 7.5V Absolute V_{DD} Rating

✓ >±100kV/µs Common-Mode Transient Immunity (CMTI)

✓ High System-Level Electrostatic Discharge (ESD), Electrical Fast

✓ 13ns Propagation Delay for 5V Operation

✓ Ultra-Low Power Supply Current

✓ Tri-State Outputs with Enable (EN) Control

✓ Voltage High Failsafe Output

✓ 1.2kV Peak V_{IORM} Working Insulation

✓ Wide -40°C to +125°C Temperature Range

Show more ▼

Active Part Numbers: MP27631GY-P MP27631GY-Z

Meaning of P & Z ▼

Design Resources

Reference Materials	
Type	Title
Video	Gate Driving for High-Voltage Converters: Gate Driver Protections – Common Mode Transient Immunity (CMTI)
Article	DC Fast Charging System: Maximizing Power Density with an LLC Transformer Driver
Article	MPS Power Management Solutions for Power over Ethernet (PoE) Switches

Symbol, Footprint & 3D Model

30+ more formats ^

Symbols (36)

Footprint (34)

3D Models (15)

Ultra Librarian

MPS

Manufacturer: Monolithic Power Systems

Part Number: MP27631GY-Z

EDA model is not yet available for this part. Please enter your email address and we will notify you when it is released

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Model Feedback

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All MPS parts are lead-free, halogen-free and adhere to the RoHS directive. See Environmental section for details.

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