POWER X
博尔芯半导体科技

PXS070-CH4

Four-Channel, High-Side Addressable VCSEL Driver
70V, 2A(Max)

1 Features

- Max 2A peak current for each channel
- TTL and CMOS Compatible Inputs
- Wide VDD operating range from 4.5 V to 70 V
- Independent input for each channel
- Hysteretic-logic thresholds for high noise immunity
- Fast propagation delay (12-ns typical)
- UVLO and over-temperature protection
- QFN 2.3*2.5mm Package Size

2 Applications

- 1D/2D Addressable VCSEL Driver

Order Information	
Name	**Max Current for each channel**
PXS070-CH4A1	500mA
PXS070-CH4A2	2A

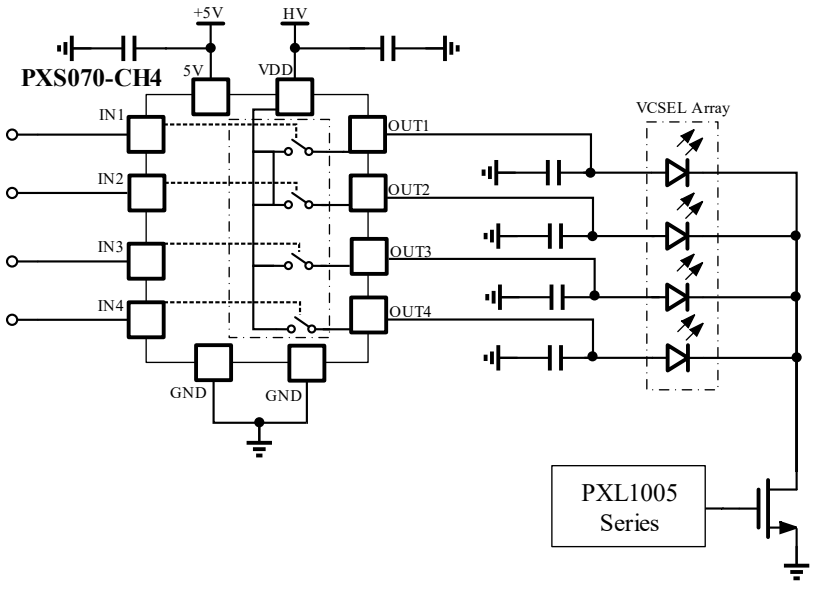
3 Description

The PXS070-CH4 is a Four-channel, High-Speed, High-Side addressable laser driver that effectively drives 1D/2D arrays. PXS070-CH4 can operate stably at 70V VDD and meet the requirements of high-power laser output. PXS070-CH4 has a maximum drive strength of 2-A, which enable the driving of lasers at MHz frequency while minimizing heat dissipation. The inputs of the PXS070-CH4 are TTL logic compatible, therefore control signals of 3.3V/5V can be used. Each channel of the PXS070-CH4 can be independently selected and controlled.

The PXS070-CH4 requires a 5V power supply for the internal logic circuit. The PXS070-CH4 also features undervoltage lockout (UVLO) for improved system robustness. The driver features undervoltage lockout so that the device will not be damaged in overload or fault conditions.

The PXS070-CH4 is available in QFN 2.3*2.5mm package, which minimize parasitic inductance and board size.

Typical (Simplified) System Diagram



Simplified Application Diagram