SONY

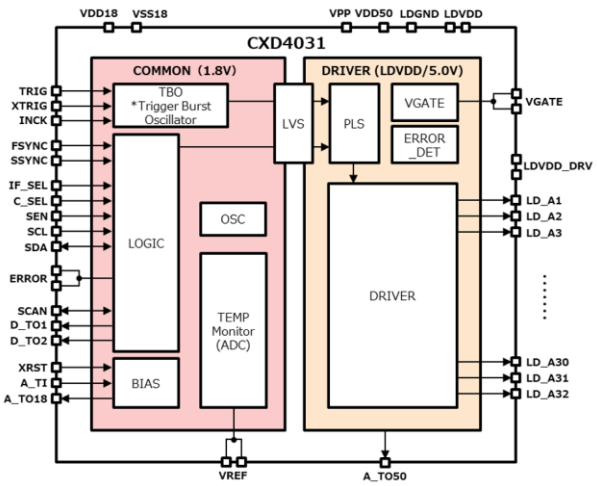
Laser Diode Driver for Long Range LiDAR

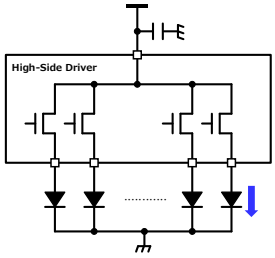
Sony Semiconductor Solutions laser diode driver for long range LiDAR is comprised of high power high-side output driver and output channel selectable high speed pulse generator.
CXD4031 is equipped with a variety of functions and protection circuits to help for improving system performance and reliability.

Introducing CXD4031GF/GF-W

High power high-side output driver and
output channel selectable high speed pulse generator.

Feature





- **Total 32ch completely programable output**
- **Up to 13A output current**
- **Narrow pulse width (1.5~15ns)**
- **Various monitor and eye-safety functions**
- **Pure silicon driver and small form factor**
- **AEC Q-100 Grade-2** *only for CXD4031GF-W
- **Functional safety ASIL-B capable** *only for CXD4031GF-W

Specification

Power Supply	Core	1.8V
	Analog	5.0V
	Laser	~40V
Output Current		up to 13A/ch
Output Channel		32ch
Package		7.68mm x 7.78mm CSP

Benefit

- **Simple Tx system configuration**
- **Reduce total components number**
- **Small PCB size**
- **Tx performance enhancement by shot control**
- **Relaxing design requirement for skew control**
- **Component level FuSa support**

For more information, contact us.