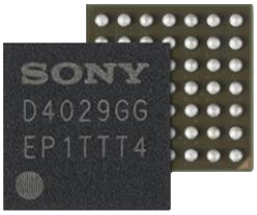
SONY

Laser Diode Driver for Automotive and Industrial Near-Field Sensing

Sony Semiconductor Solutions laser diode driver for automotive and industrial application is high power and high reliability current output driver. CXD4029 is equipped with a variety of functions and protection circuits to help for improving the performance of systems.

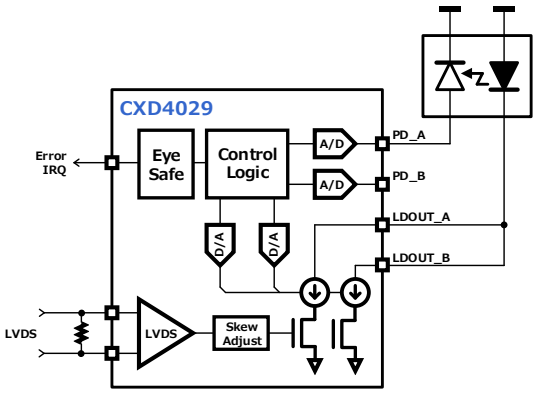
Introducing the CXD4029GG/GG-W

Equipped with a variety of features and protective circuit for enhanced performance of systems



Feature

- **>6A switching current**
- **Support auto & manual power control**
- **Output current (rise-time) enhance function**
- **Built-in various monitor functions**
  - illumination power monitor with PD
  - voltage monitor (power supply & LD cathode)
  - temperature monitor
  - ITO film resistance detection
- **Illumination signal skew adjustment**
- **Support SPI/I2C serial interface** (multi address)
- **AEC Q-100 Grade-2** *only for CXD4029GG-W



Benefit

- **High power and high modulation frequency**
- **Integrated various monitor for “eye-safety”**
- **Multi LDs configuration for wide FOV**

Specification

Power Supply	Core	1.8V
	Laser	3.0V~12V
Output Current	Bias	max 2.0A
	Switch	max 7.4A
Output Channel		Two
LVDS Frequency		up to 200MHz
Auto Power Control		Support
Eye-Safe Functions		ITO / PD Monitoring
Skew Adjustment		Support
Serial Interface		SPI / I2C(multi-address)
Package		6.0mm x 6.0mm BGA

For more information, contact us.