Contact sales@powerx-ic.com for Full Datasheet

POWER X
博尔芯半导体科技

PXPD4020WLR

Laser Driver IC
40V, 20A

1 Features

- 3.3V/5V Power Supply
- 20A Peak Current Transient
- 1-ns typical minimum input pulse width
- 2.5-ns typical rising propagation delay
- Smart Switch specially designed for Laser Diode
- TTL/CMOS Logic Inputs
- UVLO and over-temperature protection
- WLCSP 1.3mm*1mm Package

2 Applications

- VCSEL/EEL Driver

3 Description

The PXPD4020WLR is specifically designed to drive a Laser Diode with robust current sink capability, enabled by a specially designed smart switch. The inputs are compatible with TTL/CMOS logic levels and support 1ns input minimum pulse-width which significantly enhance the LDS performance. The PXPD4020WLR offers flexible power supply options: it can either use 3.3V or 5V power supply.

The driver features undervoltage lockout (UVLO) and over-temperature protection (OTP), ensuring that the device will not be damaged in overload or fault conditions.

PXPD4020WLR is available in 1.3mm*1mm WLCSP package to meet the size and gate loop inductance requirements for high-speed switching applications.

Typical System Diagram

