

In this work, a "capacitor-laser diode (LD)-capacitor" structure, namely, laser diode in capacitors (LDIC), that can be used for non-contact monitoring of high-voltage (HV) line status by ...

It explains why testing is essential at various stages, from development and manufacturing quality control to the burn-in process for eliminating early failures. The challenges of testing, such as ...

In addition to the monitoring during CW laser welding, the photodiode-based observation of laser processes using nanosecond pulses has been part of the research so far.

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Two common methods of delivering current pulses are a pulsed constant current source coupled directly to the laser diode, and the use of a pulsed constant voltage source driving a known ...

In this work, we use a common technological configuration: a packaged semiconductor LD integrated with a monitoring (MON) photodiode, which allows simultaneous measurement of ...

We demonstrate that with a simple and passive electrical measurement process and optical calibration method the temperature of a photodiode can be determined, while keeping its ...

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In some systems, a simple LED or laser diode is used to create a light source to provide illumination, however, even with initial calibration the light source will degrade with time. As the LED ...

Laser Diode Tutorial The purpose of this laser diode tutorial is to provide the information necessary to create a long lifetime, stable laser diode system. Much of what will be discussed will be in general ...

This application note will provide a practical step-by-step guide to optimizing laser diode control with rule of thumb approximations that work with most laser diodes. This will show the ...

In recent years, there has been an increased demand for elaborate monitoring techniques in laser material processing. This has been driven by the need for fast and cost-efficient ...

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