Low Temperature Laser Diode

Low-power laser diodes generate the largest revenues of all laser types -- mainly due to applications in communications and data storage. High-power laser diodes have far lower sales numbers and ...

We have experimentally validated at low temperature the static helium gas gap heat switch concept for active mirror laser amplifier. A prototype was built and integrated into the Lucia laser chain.

The low-temperature poly-Si (LTPS) thin-film transistor (TFT) with bottom-gate architecture was successfully developed using the blue laser diode annealing (BLDA) technology.

Laser diodes, which are capable of converting electrical current into light, are available from Thorlabs with center wavelengths in the 375 - 2000 nm range and output powers from 0.2 mW up to 2 W.

We present measurements and calculations of thermal load for this design and characterize the performance of 633 nm and 638 nm laser diodes in the low temperature regime.

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Abstract: In this letter, a high performance and large area feasible top-gate low-temperature polysilicon thin film transistor (LTPS TFT) technology is reported.

This paper reports measurements and analysis of low temperature behaviour of laser diodes. We first present static experiments including measurements of threshold currents, electrical- to-optical ...

Semiconductor lasers generate a small amount of heat during operation, so their performance varies at different temperatures. Generally speaking, semiconductor lasers perform ...

the performance of uncooled semiconductor LD was experimentally studied. These results investigated the effect of temperature on several essential parameters in order to define the quality of...

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