

How to read the batch number of a laser diode

Article Overview

The batch number on a laser diode is typically a manufacturer-specific code that identifies the production lot, date, and sometimes the fabrication facility, and it is usually printed or etched on the diode package.

Understanding Laser Diode Markings

Laser diodes often have multiple markings on their package, including:

- o Part number: Identifies the diode type, wavelength, and power rating.
- o Serial number: Unique identifier for the individual diode.
- o Batch or lot number: Indicates the production batch, which helps trace manufacturing conditions and quality control. The batch number is usually a combination of letters and numbers. Manufacturers may encode the year, month, and production line in this code. For example, a code like A231 could mean the first batch (A) produced in the 23rd week of a given year (23) with a line identifier (1). The exact format varies by manufacturer.

Steps to Read the Batch Number

- o Locate the marking: Check the top, side, or bottom of the diode package. It may be laser-etched, printed, or molded into the plastic or metal housing.
- o Identify the batch code: Look for a sequence that differs from the part number or serial number. It is often shorter and may include letters and numbers.
- o Refer to the manufacturer datasheet: Most manufacturers provide a batch code decoding table in their datasheets or quality documentation. This will explain the meaning of each character in the code.
- o Contact the manufacturer if unclear: If the datasheet does not provide decoding information, the manufacturer's technical support can clarify the batch number format.

Additional Tips

- o Keep track of batch numbers: When testing or using multiple diodes, recording batch numbers helps identify potential defects or performance variations.
- o Cross-reference with testing data: Batch numbers are often used in conjunction with L-I-V characterization or burn-in testing results to ensure reliability and consistency .
- o Understand limitations: Unlike JEDEC or Pro Electron part numbers for standard diodes, batch numbers are internal identifiers and do not convey electrical specifications directly . By following these steps and consulting manufacturer documentation, you can accurately interpret the batch number of a laser diode and use it for traceability, quality control, or inventory management.

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Batch codes, also known as lot numbers or batch numbers, are alphanumeric identifiers printed on product packaging to track

The last four characters (5678) represent the batch number. Not all lot numbers will follow this exact format, but most

Although the first number represents the number of junctions in the device and the next letter (or two) represent the

An Introduction to Laser Diodes Learn about the laser diode, including package types, applications, drive circuitry, and

Understand laser diode specifications and characteristics and how they relate to real circuits and applications wit tips on the

This is a list of laser types, their operational wavelengths, and their applications. Thousands of kinds of laser are known, but most of

In this the first letter designated the heater voltage and current, the second and subsequent letters the individual functions within the

In this video you learn how to identify your diamond using the laser inscription of the

Information to the batch numbering System The batch number consists usually of 1 or 2 letters and a 6-9 digits number. In some

Where to Find Batch Code A batch code, also known as a lot number or lot code, is an alphanumeric identifier used to track a

This is a document on the fundamentals of laser diodes.It explains the characteristics of laser light, package structure,

Laser diodes are the most common type of lasers produced, with a wide range of uses that include fiber

Decode the model code. The number after the diode and material-designation codes is the model or part number. There are

It typically consists of a three-digit number followed by a letter or additional numerical codes. The three-digit

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number indicates the

Laser diodes are widely used across various industries, including telecommunications, material processing, and

Laser Diodes: Laser diode operation 101: A user's guide As laser technology proliferates, end users are coming into

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