How to read the batch number of laser diodes

Overview

How To Identify A Diode And Its Specification | Transistor Number CodeIt typically consists of a three-digit number followed by a letter or additional nume.

Key Takeaways

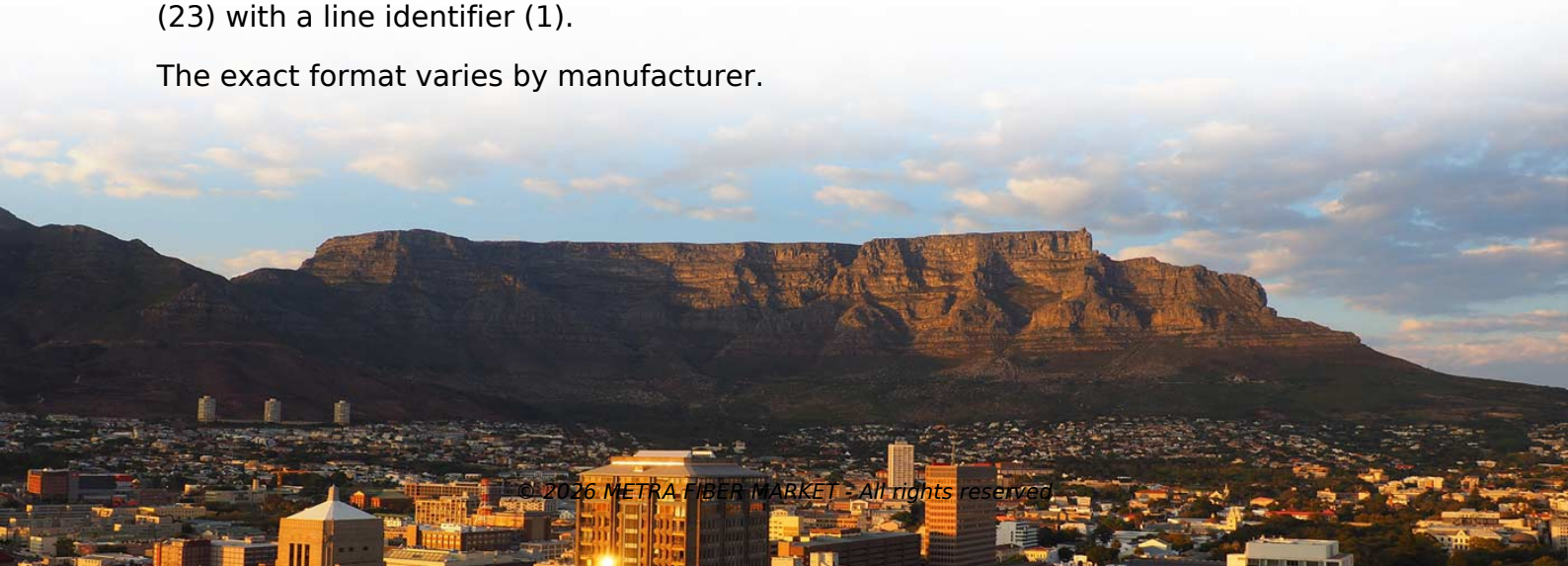
The batch number on a laser diode is typically a manufacturer-specific code that identifies the production lot, date, and sometimes the fabrication facility, and it is usually printed or etched on the diode package.

Understanding Laser Diode Markings

Laser diodes often have multiple markings on their package, including: Part number: Identifies the diode type, wavelength, and power rating. Serial number: Unique identifier for the individual diode. 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.



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Steps to Read the Batch Number

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. 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. 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.

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

Keep track of batch numbers: When testing or using multiple diodes, recording batch numbers helps identify potential defects or performance variations. 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. 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.

Article Content

How To Identify A Diode And Its Specification | Transistor Number Code

It typically consists of a three-digit number followed by a letter or additional numerical codes. The three-digit number indicates the component value or characteristics, while the letter or additional codes

How to read the batch number of a laser diode

The batch number is a 6-digit code that is associated with the product''s manufacture date and is typically located on the bottom of the container. Batch code: X (YEAR) XX (MONTH) XX (DAY) X (INTERNAL

Deciphering the Code: A Comprehensive Guide to Reading Batch Codes

The batch number is usually a unique identifier that is assigned to each batch of products. To read a batch code, start by looking for the date of manufacture, which is usually listed first.

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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 terms of laser diode

Laser Diode Characteristics, Precautions for Use and Drive Circuit ...

This is a document on the fundamentals of laser diodes explains the characteristics of laser light, package structure, and how to read the characteristics.Examples of laser diode driving

Tecnical Support Information

You can access the principle of laser diode operation, symbol and technical word definition used in data sheet and in brocher, and caution for handling. Also please refer to FAQ list.

Diodes Group Body Marking

Example: This is a xxxxxxxx (1) with assembly lot code AC, assembled on WW 19, 2011 in the assembly line “X” Note (1) If part number contains “H” as last digit, product is AEC-Q101 qualified

components

Although the first number represents the number of junctions in the device and the next letter (or two) represent the device type, the last four work as a serial number and do not carry any

Laser Diode Characteristics Experiment | PDF | Laser Diode | Laser

Experimental procedures are given to connect a laser diode circuit and measure points to plot these curves and determine properties like efficiency and threshold current.

Best Laser Cutters and Engravers 2026: Diode, CO2 and Fiber

The best laser cutter or engraver in 2026 depends less on one “top” machine and more on what you plan to cut, engrave, sell, or prototype. Diode lasers remain the most affordable entry

Diode Laser Comparison: Glowforge, xTool, WeCreat!

In this diode laser comparison, I''m looking at seven popular diode lasers so you can see which is best for your own needs, budget, and space!

Best laser engravers of 2025 | Tested for speed & precision

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The best laser engraver for 2025 depends less on headline wattage and more on how well it matches your materials, workspace, production volume, and tolerance for setup time. A

12 Best Laser Engravers (July 2026) Expert Picks

Discover the top 12 laser engravers with our 2026 guide. We tested the best machines for wood, metal, acrylic, and leather.

Laser Cutting & Engraving – Tagged "Diode"– Eolas Prints

Diode vs CO2 vs Fiber vs UV: Which Laser Technology Is Right for Your Workshop? Every laser engraver or cutter uses one of a small number of laser technologies. The technology determines

A Comprehensive Guide of Electronic Component Lot Numbers

LOT CODE, also known as LOT No., is the abbreviation for lot number, which means "batch number". In order to trace and review the production history of a batch of electronic

How to read the batch number of a laser diode

Laser Diode Testing – performance, reliability, For rapid characterization of multiple lasers, some systems are able to characterize a large number of laser diodes simultaneously.

4 Best Laser Cutters For Acrylic in 2024 (All Prices)

In this guide, I''ll share my hands on experience with all of the best acrylic laser cutters, lay out the differences between diode and CO2 lasers, and

Diode Lasers: Definition, How They Work, Types, Applications

Laser diodes are widely used across various industries, including telecommunications, material processing, and medical treatments. This article will discuss diode lasers, how they work,

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This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

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