

Laser Diode Socket Model



AI Overview

Laser diode sockets are specialized connectors designed to securely mount and electrically interface with various laser diode packages, including TO-can, butterfly, and IC-style formats.

Overview of Socket Types

TO-Can Sockets: These are widely used for Ø3.8 mm, Ø5.6 mm, Ø9 mm, and TO-5 laser diode packages. Thorlabs offers sockets with gold-plated BeCu contacts, RoHS compliance, and optional strain relief assemblies. Some models, like the SR9 and SR9H, support forward voltages up to 3.3 V and 7.5 V, respectively, and include Schottky and Zener diodes for ESD and voltage protection . JC Cherry provides sockets compatible with TO-18, TO-46, TO-52, and TO-72 packages, including cable-equipped options for fiber-coupled diodes .

Butterfly Laser Diode Mounts: Butterfly packages, such as 14-pin models, use mounts like Newport's LDM-4984 series. These feature zero insertion force (ZIF) sockets, spring-loaded clamps, and 9-pin D-sub connectors. They allow configurable pin assignments, temperature control, and secure clamping to heat sinks, making them ideal for precise optical and thermal management .

IC & Component Sockets: Mouser Electronics stocks laser diode IC and component sockets suitable for integration into printed circuit boards, providing datasheets and inventory for various pin configurations .

Miniature Sockets: 3M Textool sockets accommodate most TO package formats with pin circle options of 2.0 mm or 2.54 mm, supporting 3- and 4-lead laser diodes. These compact sockets maximize board density and are suitable for high-density electronic assemblies .

Key Features to Consider...

Article Content

Jul 13, 2026

Affordable ZIF Butterfly Laser Diode Heat Sink, Type-1

This butterfly packaged laser diode mount and heat sink is one of a series of affordable solutions designed

Sep 11, 2025

LASER DIODE MOUNTS

Additionally, check out our MOT_BTCK test sockets designed for easy evaluation and implementation of

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Laser Diode Socket for Ø5.6 mm Laser, 3 Pin

Thorlabs offers a versatile range of accessories for convenient integration of laser diodes into functional systems. These laser diode

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Laser Diode Socket 2.54mm IC Sockets | Newark Electronics

Buy Laser Diode Socket 2.54mm IC Sockets. Newark Electronics offers fast quotes, same day dispatch, fast delivery, wide inventory,

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Laserdioden Stecksocket

Laserdioden Stecksocket Art.Nr.: LD Socket Lieferzeit: Ab Lager 8,09 EUR inkl. 19% MwSt. zzgl. Versand

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Laser Diode Socket, 3-Pin TO-CAN Laser Socket | Photonstream

Looking for the best quality laser diode socket? Check out our 3-Pin TO-CAN Laser Socket at Photonstream. High-performance,

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Photodiode Sockets

Thorlabs offers a versatile range of accessories for convenient integration of photodiodes and laser diodes

Feb 10, 2026

Laser Diode Socket IC & Component Sockets – Mouser

Laser Diode Socket IC & Component Sockets are available at Mouser Electronics. Mouser offers inventory, pricing, & datasheets for

Sep 18, 2025

3MTM Textool™ Laser Diode Sockets

Compact miniature socket size for maximum board density Accomodates most any TO package format with pin circle

May 20, 2026

Laser Diode Electrical Connection Socket, PC Mount

The LDS-2 is a PC mount, three pin electrical socket that fits both 5.6mm and 9mm diameter base diodes.

Nov 25, 2025

DATA SHEET

BA-01 is prewired for standard pump laser pinouts to the 20-pin connector at the end of PCB, and provides reverse bias protection

Jul 09, 2026

An Introduction to Laser Diodes

An Introduction to Laser Diodes Learn about the laser diode, including package types,

May 22, 2026

SPICE modeling of laser diodes

SPICE modeling of laser diodes For simulation purpose a laser diode can be modeled by the subcircuit shown below.

May 09, 2026

Search results for: laser diode IC & Component Sockets – Mouser

Pricing (USD) Filter the results in the table by unit price based on your quantity. A tariff of 8% may be applied if shipping to the United

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Roithner Lasertechnik

Teflon Sockets for 5.6 mm and 9.0 mm laser diodes, 3-pins or 4-pins teflon body, gold plated contacts, superior quality

Apr 15, 2026

Roithner Lasertechnik

SOCKETS FOR LASER DIODES Teflon Sockets for 5.6 mm and 9.0 mm laser diodes, 3-pins or 4-pins teflon body,

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Laser Diode Socket 3 Position IC & Component Sockets

Laser Diode Socket 3 Position IC & Component Sockets are available at Mouser Electronics. Mouser offers inventory, pricing, &

Dec 28, 2025

Cooled Mounting Socket for TO-Can Laser Diodes

Product Overview: The "ColdPack" laser diode mounting socket from Eagleyard Photonics is a high

Dec 03, 2025

Socket for photodiodes or laser diodes

This socket can be used for testing and measurement of TO 46 package photodiodes or laser diodes, with 3 pin configuration.

Feb 07, 2026

How to Use Laser Diode: Examples, Pinouts, and Specs

Learn how to use the Laser Diode with detailed documentation, including pinouts, usage guides, and example projects. Perfect for

Jul 19, 2026

14-pin Butterfly Laser Diode Mounts

LDM-4984 Series butterfly laser diode mounts provides a compact, easy-to-use solution for laser diode fixturing. Zero insertion force

Feb 25, 2026

Laser Diode and Photodiode Accessories

All laser diode sockets offered on this page, as well as the 6.1 mm and 9.1 mm

Jul 06, 2026

3M™ Textool™ Laser Diode Sockets | 3M United States

Compact miniature socket size for maximum board density Accommodates most any TO package format

Jun 16, 2026

Laser Diode Test Socket 3-pins LD Socket TO-18 (5.6mm)

1. Three-legged laser diode test, the length of pin is universal. 2. Low resistance, not easy to oxidize, long service life. 3. Small size,

Mar 26, 2026

Laser Diode Socket Test Base 3pin for 5.6mm 9.0mm 3.8mm

Item description from the seller Laser Diode Socket Laser Diode Test Baser material: brass and plastic suitable for

Jun 17, 2026

Laser Diode Socket IC & Component Sockets - Mouser

Mouser offers inventory, pricing, & datasheets for Laser Diode Socket IC & Component Sockets.

Jan 09, 2026

3M™ Textool™ Laser Diode Sockets | 3M United States

Accommodates most any TO package format with pin circle options of .079" (2.0 mm) or .100" (2.54 mm),

Feb 25, 2026

Laser Diode Socket IC u. Komponentensockel

Laser Diode Socket IC u. Komponentensockel sind bei Mouser Electronics erhältlich. Mouser bietet Lagerbestände, Stückpreise und

Jul 10, 2026

Laser diode connecting socket

Connecting socket for laser diodes. Advantages: Easily removable No solder heat on the laser diode Perfect for temporary tests No

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Laser Diode Socket 3 Position IC & Component Sockets

Mouser offers inventory, pricing, & datasheets for Laser Diode Socket 3 Position IC & Component Sockets.

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Laser Diode Drive Circuit Design Method and Spice Model

Laser Diode Drive Circuit Design Method and Spice Model ROHM offers laser diodes (LDs) for Light Detection and Ranging (LiDAR).

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Laser diode

The laser diode chip removed and placed on the eye of a needle for scale A laser diode with the case cut away. The laser diode chip

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Test Socket and Fixture Solutions for EEL and VCSEL Laser Diodes

Conventional test sockets that contact only the bottom side of a DUT won't work here. This custom burn-in fixture for

Sep 13, 2025

Laser Diode Socket

Laser Diode Socket is socket developed for the packaging and testing of laser diodes, TOSA, BOSA and ROSA. It is an essential

Mar 03, 2026

Collimated TO-56 and TO-9 Laser Diode Mounts

Temperature controlled laser diode mounts provide convenient mounting solutions for the most demanding laser diode control in the

Sep 06, 2025

Laser Diode and Photodiode Accessories

All laser diode sockets offered on this page, as well as the 6.1 mm and 9.1 mm diameter photodiode sockets, are available

Contact Us

For more information, pricing, or custom solutions, please contact us:

Website: <https://ntmmgroup.co.za>

Email: sales@ntmmgroup.co.za

Phone: +27 82 471 2596

Address: Unit 7, Optic Park, 24 High-Tech Lane, Century City, Cape Town,
7441, South Africa

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