ADVANCE PRODUCT RELEASE INFORMATION

EDL1300CD-FC/EDL1300FJ-S

EDL1300CD

# EPITAXX

EDL1300CD-FC: 1300 nm Laser Diode in a FC Receptacle

EDL1300FJ-S/M: 1300 nm Laser Diode with an integral fiber pigtail (FJ: 0.9 mm diameter buffered fiber; FC: 3.0 mm diameter cabled fiber)

EDL1300CD: 1300 nm Laser Diode in Micro-CD Package

## DESCRIPTION

The EDL 1300CD is an InGaAsP Laser Diode designed for use in local optical communications systems. The laser diode and monitor photodiode are hermetically sealed in a compact disk package.

## FEATURES

EDL1300FJ-S & EDL1300CD-FC

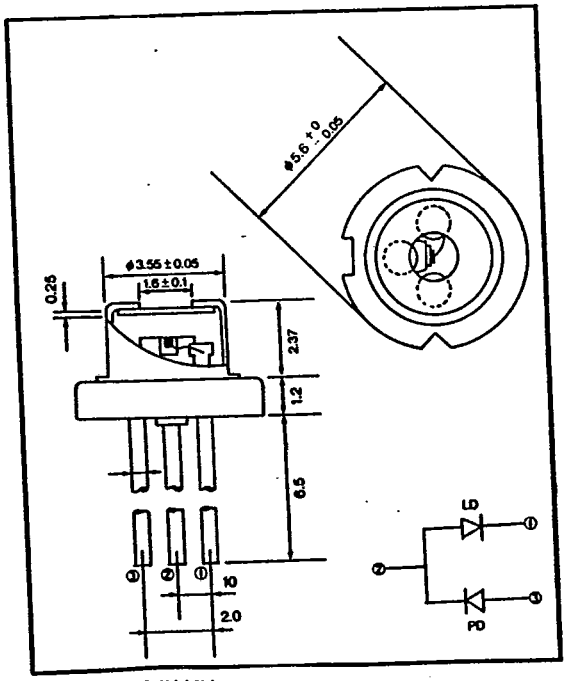
- 100 uW into SMF
- 300 uW into MMF (GI 50/125)
- Cabled pigtail available with connector termination

EDL1300CD

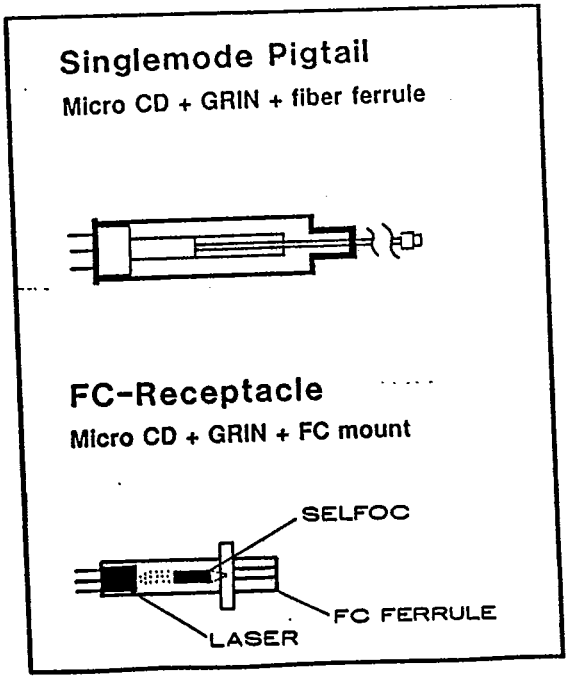
- 2 milliWatt @ 35 mA
- Convenient isolated micro-CD package
- InGaAs monitor photodiode

## DIMENSIONS

EDL1300CD




EDL1300FJ-S/EDL1300CD-FC




DIMENSIONS IN MM

3490 U.S. ROUTE 1 ■ PRINCETON, NJ 08540 ■ (609) 452-1188 ■ TLX: 759363 ■ FAX: (609) 452-0824

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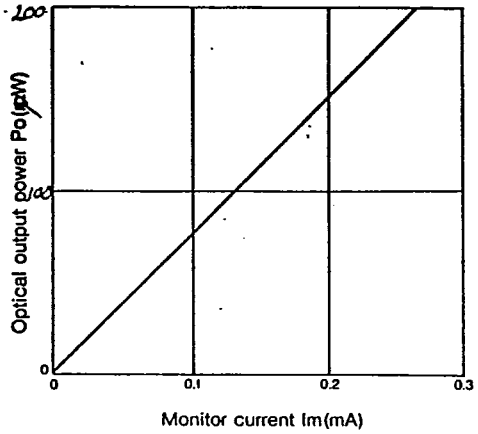
## SPECIFICATIONS

Optical output power vs. monitor current



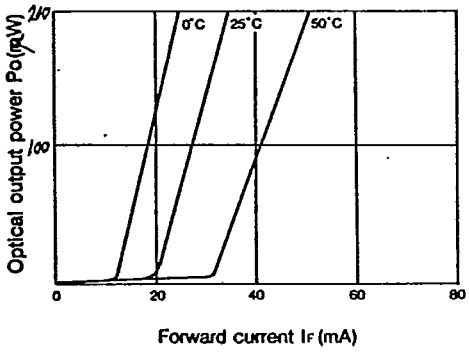

At 25C and 2 mW unless otherwise indicated.

| Parameter | Min. | EDL1300CD Typ. | Max. | Unit |
|---|---|---|---|---|
| Peak Wavelength | 1270 | 1300 | 1330 | nm |
| Spectral Width | | | 5 | nm |
| Optical Power | 1.5 | 2.0 | | mW |
| Threshold Current | | 20 | 45 | mA |
| FWHM Parallel<br>Perpen. | | 25<br>35 | 35<br>45 | degree<br>degree |
| Rise/<br>Fall Time* | | 0.5<br>0.8 | 1<br>1 | nS<br>nS |
| Monitor Current | 200 | | | uA |
| Dark Current** | | 5 | 15 | nA |

*$I_{bias} = I_{th}$ **@ -5V

## MAXIMUM RATINGS

Optical output vs. forward current

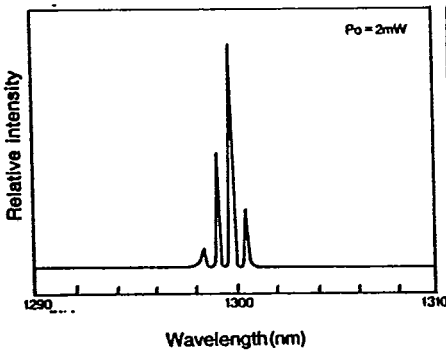


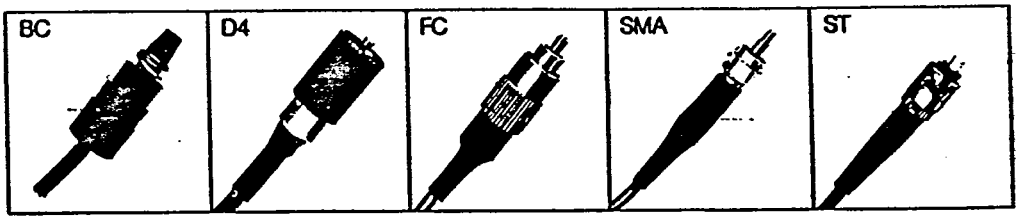

| Parameter | | EDL1300CD | Unit |
|---|---|---|---|
| Forward Current | LD<br>PD | 100<br>10 | mA |
| Reverse Voltage | LD<br>PD | 2<br>15 | V |
| Operating Temperature | | -20/+50 | °C |
| Storage Temperature | | -40/+100 | °C |

## OPTIONS

These devices can be pigtailed with either Single- or Multi-mode fiber in a 3mm tight cable with a variety of popular connector terminations: FC, PC, ST, Biconic, D4, etc.

Emission spectrum




The devices also are available in FC-type active receptacles for direct mating with an FC/PC singlemode connector or and FC multimode connector

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