1310nm Laser Diode Transmitter

C-13-1315T-01-XX



Features

- Laser diode with multi-quantum-well structure
- Un-cooled operation at -40~+85°C
- For Singlemode Applictaion
- High Optical Power
- High Speed
- 8 Pin Package with ST Port
- Design for fiber optic networks
- RoHS Compliant available

| Absolute Maximum Ratings (Tc=25°C) | | | | | | |
|------------------------------------|------------------|----------|------|--|--|--|
| Parameter | Symbol | Rating | Unit | | | |
| Oprating Current | lop | 100 | mA | | | |
| LD Reverse Voltage | V _{RLD} | 2 | V | | | |
| Operating Temperature | T _{opr} | -40 ~ 85 | °C | | | |
| Storage Temperature | T _{stg} | -40 ~ 85 | °C | | | |

(All optical data refer to a coupled 9/125µm S/M fiber)

| Optical and Electrical Characteristics (Tc=25°C) | | | | | | |
|--|------------------|------|------|------|------|------------------------------|
| Parameter | Symbol | Min | Тур | Мах | Unit | Test Conditions |
| Threshold Current | I _{th} | - | 12 | 20 | mA | CW |
| Fiber Output Power | Pf | 120 | - | 220 | μw | CW, lop=40mA |
| Peak Wavelength | λ | 1290 | 1310 | 1330 | nm | CW, $P_f = P_f$ (Min) |
| Spectral Width (RMS) | Δλ | - | 2 | 5 | nm | CW, $P_f = P_f$ (Min) |
| Forward Voltage | VF | - | 1.2 | 1.6 | V | CW, $P_f = P_f$ (Min) |
| Rise/Fall Time | t/t _f | - | - | 0.5 | ns | $I_{bias} = I_{th}$, 10~90% |

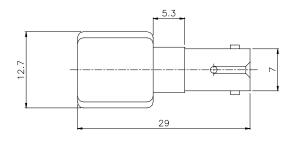
Note: 1.ESD precasutions must be taken when handling this product.

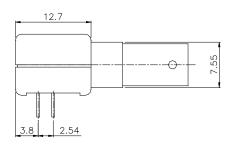
2.Specifications subject to change with notice.

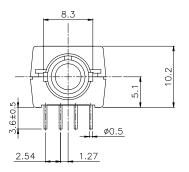
3.Pin assignment can be custom specified.

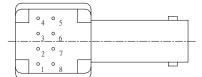
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Pinout Assignment

| PIN | FUNCTION |
|-----|----------|
| 1 | N.C. |
| 2 | N.C. |
| 3 | LD- |
| 4 | N.C. |
| 5 | N.C. |
| 6 | LD+ |
| 7 | N.C. |
| 8 | N.C. |

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Ordaeing Information

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RoHS Compliant

-/G5/GR

Blank = RoHS non-compliant product G5 = RoHS 5/6-compliant product (lead exemption) GR = Full RoHS compliant product (no exemption)

Warnings

Handling Precautions: This device is susceptible to damage as a result of electrostatic discharge (ESD). A static free environment is highly recommended. Follow guidelines according to proper ESD procedures.

Laser Safety: Radiation emitted by laser devices can be dangerous to human eyes. Avoid eye exposure to direct or indirect radiation.

Legal Notice

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