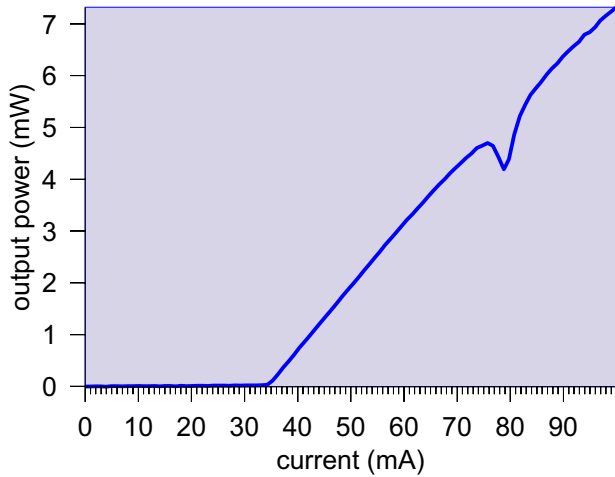
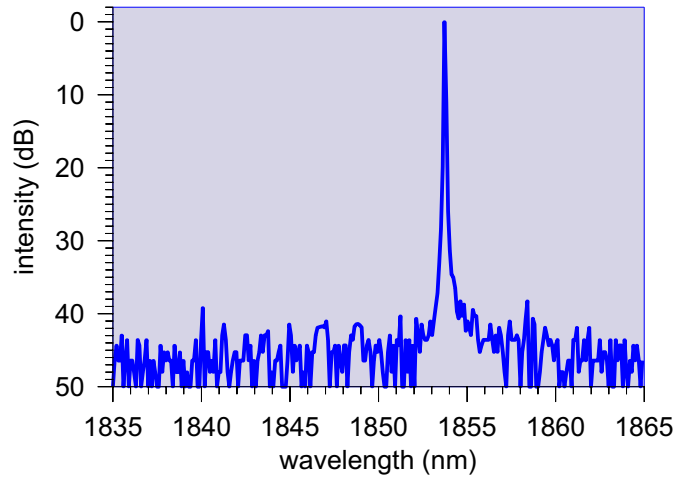


# Datasheet for 1854nm DFB Laser

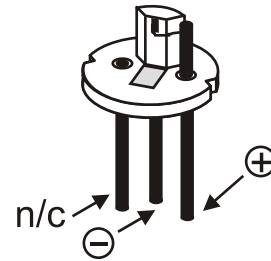
**Current-Output-Power**



**Spectrum**



The Laser is mounted on:  
TO 5.6mm without cap.  
Electrical connection as shown:



## Characteristics

| Parameter         | Symbol    | Unit  | min | typical | max |
|-------------------|-----------|-------|-----|---------|-----|
| Operation voltage | U         | V     |     |         | 2   |
| Max. Current      | $I_{max}$ | mA    |     |         | 100 |
| Threshold current | $I_{th}$  | mA    |     | 34      |     |
| Slope efficiency  | e         | mW/mA |     | 0.12    |     |

## Operation conditions

| Parameter             | Symbol    | Unit | min | typical | max |
|-----------------------|-----------|------|-----|---------|-----|
| Operation temperature | T         | °C   | 20  | 25      | 35  |
| Wavelength            | $\lambda$ | nm   |     | 1854    |     |
| Operation current     | I         | mA   |     | 80      |     |
| Output power          | $P_{opt}$ | mW   |     | 5       |     |

Device protected by US patent no. 6,671,306; 6,846,689



### Caution:

High voltage, high temperature, and mechanical forces may cause irreversible damage to the laser. When handling the laser diode proper ESD (electrostatic discharge) precautions are recommended to avoid performance degradation or loss of functionality.

