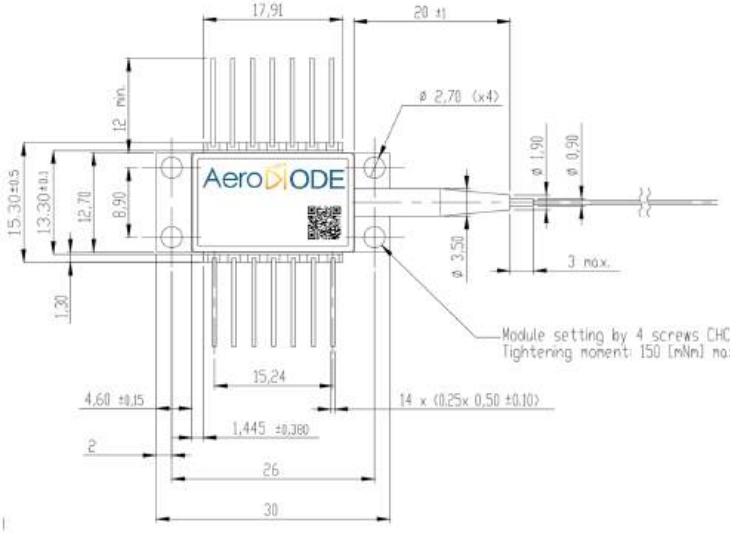
# 808 nm laser diode

## 250 mW / singlemode fiber / Butterfly package

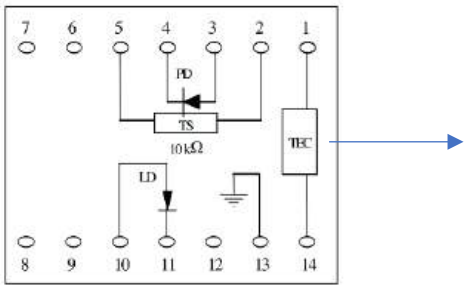
### Reference: 808LD-1-0-0

| SPECIFICATIONS | Unit | Min | Typ | Maximum |
|---|---|---|---|---|
| Optical parameters | | | | |
| Output Power | mW | | 250 | |
| Center Wavelength<br>(optional "FBG" version) | nm | 803<br>(807) | 808<br>(808) | 813<br>(809) |
| Spectral Width (FWHM) /<br>(optional "FBG" version) | nm | | 1.0<br>(0.1) | |
| Threshold Current | mA | | 90 | 120 |
| Operating Current | mA | | 390 | 450 |
| Operating Voltage | V | | 2.0 | 2.3 |
| Wavelength shift w Temperature<br>(Optional "FBG" version) | nm/°C | | 0.25<br>(5 $10^{-3}$) | |
| Wavelength shift w Current<br>(Optional "FBG" version) | nm/A | | 5<br>(~0) | |
| Side mode suppression ratio<br>(Optional FBG version) | dB | | (20) | |
| Internal photodiode responsivity | mA/W | 1 | 5 | 20 |
| Internal photodiode dark current | nA | | 5 | 40 |
| TEC current (25°/case@70°) | A | | 1.1 | |
| TEC voltage (25°/case@70°) | V | | 1.9 | |
| Internal thermistor (25°) | kOhm | 9.5 | 10 | 10.5 |
| Fiber type | Hi780 | | | |
| Fiber bend radius | mm | 25 | | |
| Storage temperature | °C | -40 | | 85 |
| Operating case temperature | °C | -20 | | 70 |
| Operating chip temperature | °C | 20 | | 40 |
| Laser diode reverse voltage | V | | | 2 |

### Form factor:




### Laser diode pinning:




Totally floating pin-out