## CW Power Output
**Conditions:**
32A at 25°C Heat Sink

**Values:**
- **MIN:** 20
- **TYP:** ---
- **MAX:** ---
- **Units:** W

## Operating Current
**Conditions:**
20W at 25°C Heat Sink

**Values:**
- **MIN:** ---
- **TYP:** 28
- **MAX:** 30
- **Units:** A

## Threshold Current
**Conditions:**
25°C Heat Sink

**Values:**
- **MIN:** ---
- **TYP:** 7.5
- **MAX:** 9.0
- **Units:** A

## Center Wavelength
**Conditions:**
20W at 25°C Heat Sink

**Values:**
- **MIN:** ---
- **TYP:** 808
- **MAX:** ---
- **Units:** nm

## Wavelength Tolerance
**Conditions:**
20W at 25°C Heat Sink

**Values:**
- **MIN:** ---
- **TYP:** ± 3
- **MAX:** ---
- **Units:** nm

## Spectral Width FWHM
**Conditions:**
20W at 25°C Heat Sink

**Values:**
- **MIN:** ---
- **TYP:** 1.9
- **MAX:** 2.5
- **Units:** nm

## Wavelength Shift
**Conditions:**
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**Values:**
- **MIN:** 0.23
- **TYP:** 0.25
- **MAX:** 0.27
- **Units:** nm/°C

## Beam Divergence FWHM
**Conditions:**
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**Values:**
- **MIN:** 40x10
- **TYP:** 42x12
- **Units:** ° x °

## Series Resistance
**Conditions:**
25°C Heat Sink

**Values:**
- **MIN:** ---
- **TYP:** 0.005
- **MAX:** 0.012
- **Units:** ohms

## Operating Voltage
**Conditions:**
25°C Heat Sink, 20W

**Values:**
- **MIN:** ---
- **TYP:** 1.8
- **MAX:** 2.1
- **Units:** V

## Forward Current
**Conditions:**
35A

## Reverse Current
**Conditions:**
25uA

## Reverse Voltage
**Conditions:**
3V

## Operating Temperature Range
**Conditions:**
-20°C to 50°C

## Storage Temperature Range
**Conditions:**
-40°C to 85°C

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**NOTES**

1. These specifications apply for operations at 808nm. Other wavelengths available upon request.
2. A dry nitrogen environment should be provided by the user when storing and operating at temperatures below ambient dew point.
MECHANICAL CHARACTERISTICS

Laser diode product components are intended for use in a user-devised end system. However, these products are capable of emitting Class IV radiation. Extreme care must be exercised during their operation. Only persons familiar with the appropriate safety precautions should operate a laser product. Directly viewing the laser beam or exposure to specular reflections must be avoided. Serious injury may result if any part of the body is exposed to the beam. The eye is extremely sensitive to the infrared radiation and therefore, proper eyewear must be worn at all times. Use of optical instruments with these products may increase eye hazard. Always wear proper eye protection when operating.

Information contained herein is believed to be reliable and accurate.

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