980nm 1W CWLD Continuous Wave Laser Diode

Product Description

This is a laser diode designed to be driven in continuous wave (CW) mode, with output power ranging from a few milliwatts to several watts.

Product features

Continuous wave output；High electro-optical efficiency；Wide wavelength range；Narrow spectral linewidth；Long lifespan High reliability

Part Number

MP-FP-980-1000-dia.9.0CD

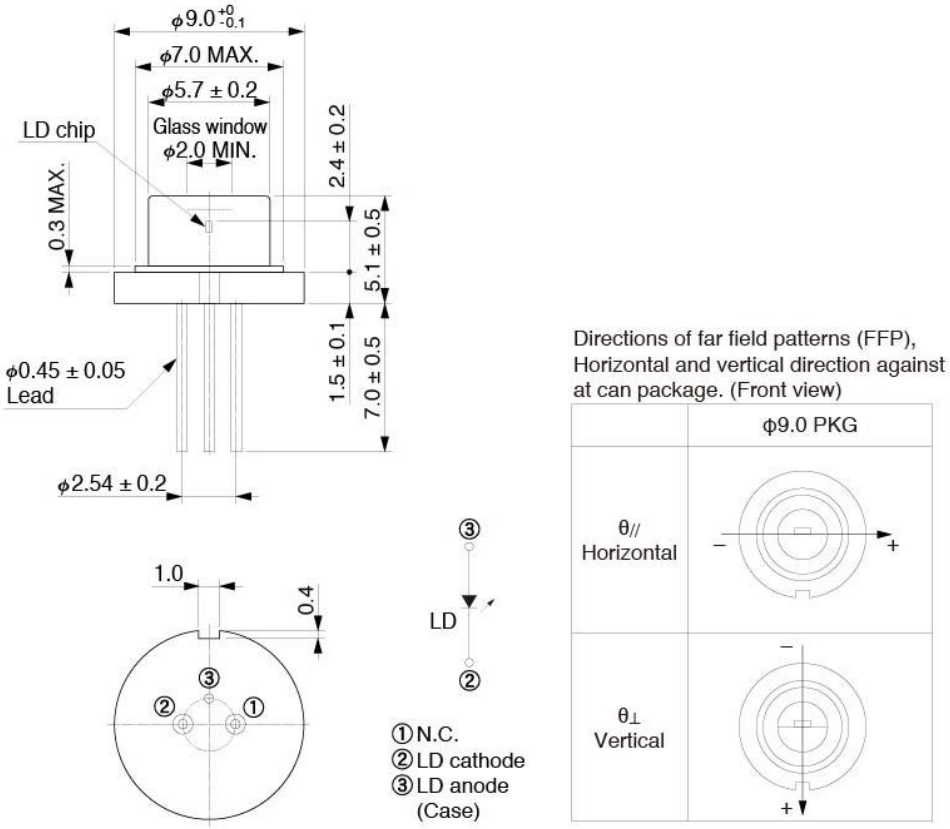
Application area

Optical fiber communication | Laser processing | Medical equipment | Sensing and measurement | Scientific research and experiments

Core parameters

Center Wavelength	Output Power	Package
980 nm	1W	dia.9.0CD

Dimension Drawing



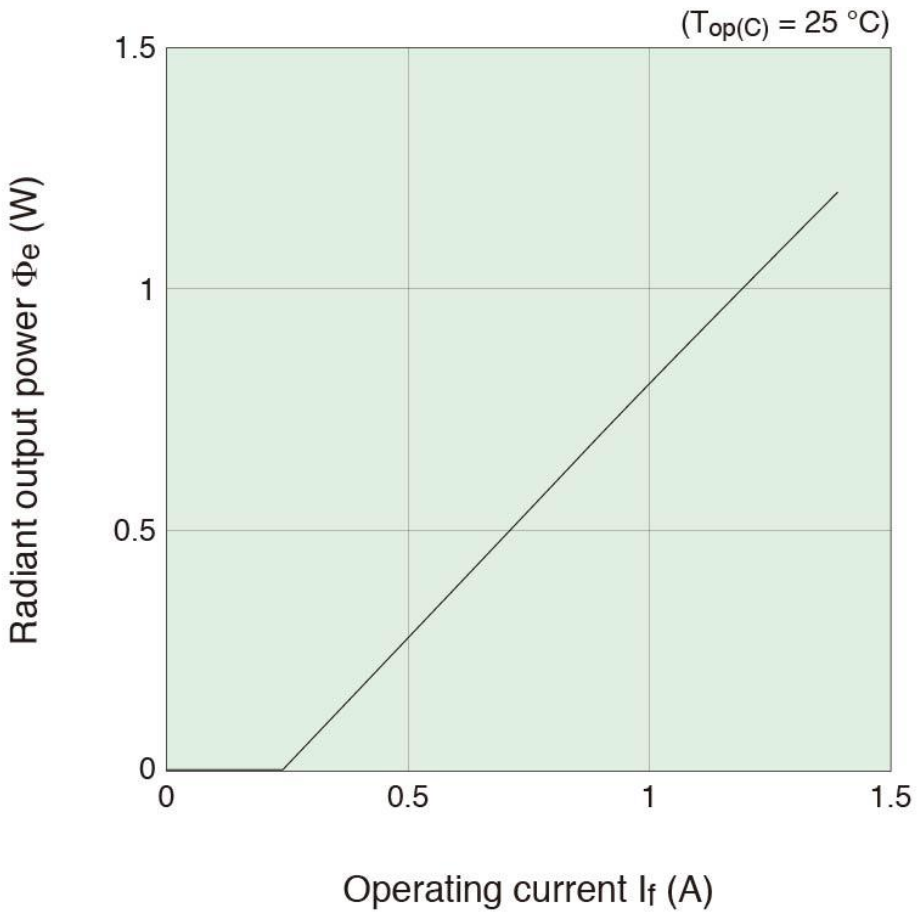
General Parameters

Specifications

Parameter	Value
Type	Lateral Multimode LDs (broad stripe)
Operating Temperature	0 to +30 °C
Storage Temperature	-30 to +80 °C
Peak Emission Wavelength - Min	970 nm
Peak Emission Wavelength - Typ	980 nm
Peak Emission Wavelength - Max	990 nm
Output Power - Typ	1 W
Operating Current - Typ	1.2 A
Spectral Radiation FWHM Bandwidth - Typ	2 nm
Operating Voltage - Typ	2 V
Emission Width	100 × 1 μm
Beam Divergence - Parallel - Typ	8°

Beam Divergence - Perpendicular - Typ	**32°**
Laser Pump Threshold Current - Typ	**0.25 A**
Package	**dia. 9.0CD**

Radiation Output Power vs. Operating Current (Typical Value)



Typical Emission Spectrum