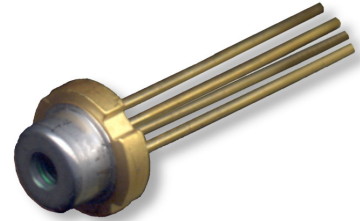


ML1526

1650 nm high-performance single transverse mode TO-can laser

Overview

Modulight's ML1526 is a high-performance single transverse mode 1650 nm FP laser in a 5.6 mm TO-can. The laser emits 100 mW pulsed peak power (10 μ s PW, 1% DC) at 1650 nm wavelength. ML1526 is designed to be used as light source in fiber optic test and measurement equipment.



Applications

Defense	Industrial	Communications
Test & measurement	Test & measurement	Test & measurement

Electro-optical Characteristics

Parameter	Symbol	Min.	Typical	Max.	Unit
Central Wavelength ($I_{OP} = 500$ mA)	λ	1630	1650	1670	nm
Optical Output Power (Peak Power)	P_{OPT}	100	-	-	mW
Operating Current ($P_{OPT} = 100$ mW)	I_{OP}	-	500	750	mA
Operating Voltage ($P_{OPT} = 40$ mW, CW)	V_{OP}	-	1.3	1.9	V
Slope Efficiency	η	0.15	0.22	-	W/A
Threshold Current	I_{TH}	-	55	75	mA
Spectral Width	$\Delta\lambda$	-	3	7	nm

All above values are for operation @ 25°C. If not otherwise stated, the characteristics are for operation under pulse current (pulse width = 10 μ s and duty cycle 1 %).

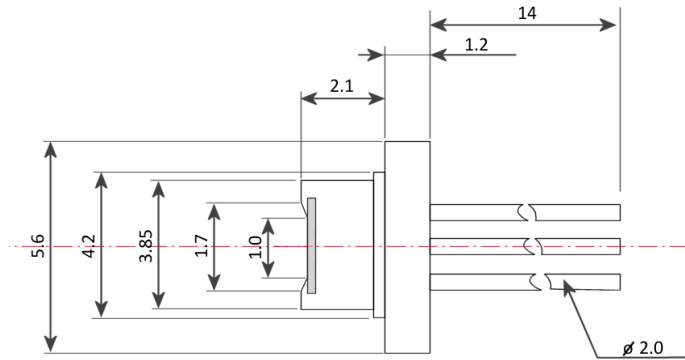
Absolute Maximum Ratings

Parameter	Symbol	Rating	Unit
LD Forward Current	I_{FLD}	800	mA
Operating Temperature Range	T_{OP}	10...40 ¹	°C
Operating Temperature Range	T_{ST}	-40...85	°C

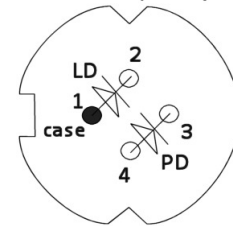
¹ A non-condensing environment is required for operation temperatures below 10 °C.

Mechanical Specification

Side view



Bottom view - pin layout #2



All dimensions are millimeters (mm). The default pin layout is #2 (shown). Other pin layouts are available as per customer request. Monitoring photodiode is optional, not included by default.

Safety Information

- The laser light emitted from this laser diode is invisible and potentially harmful to the human eye. Avoid eye and skin exposure to the beam, both direct and reflected.
- Products are subject to the risks normally associated with sensitive electronic devices including static discharge, transients, and overload. Please ensure ESD protection prior to handling the products.
- These Modulight products are not intended for use in systems where product malfunction can reasonably be expected to result in personal injury.



Peak power and wavelength are for safety analysis only, not to present device performance.

Liability note

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