



Test Data Sheet



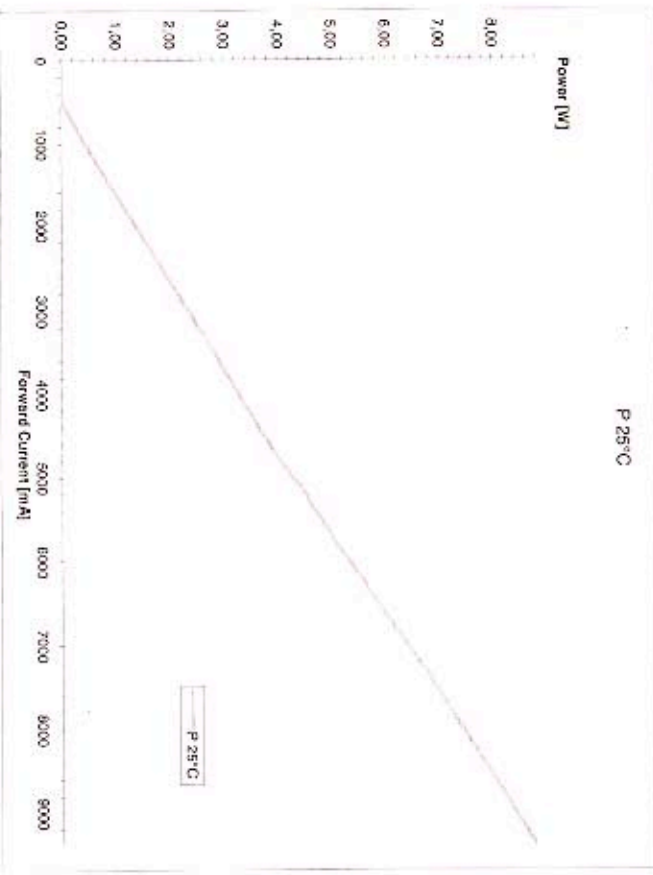
Model	LU0915T080-D605N12A
Serial No	321112
Module ID	334226
Date	11. Dec. 07

Characteristics @ 25°C (T_{case} and T_{case})

Parameter	Sym.	Value	Unit
Operating Power (P _{op})	P _{op}	8000	mW
Peak Wavelength	λ _{max}	919.0	nm
FWHM	λ _{FWHM}	2.95	nm
Laser Operating Current	I _{op}	8552	mA
Threshold Current	I _{th}	554.1	mA
Forward Voltage at I _{op}	V _f	1.58	V

Important Note:
 (1) The maximum operating power P_{op} will be obtained at a device specific current (the Laser Operating Current I_{op}). The pump laser shall never be operated at a power higher than the maximum operating power P_{op} (except for its lifetime).

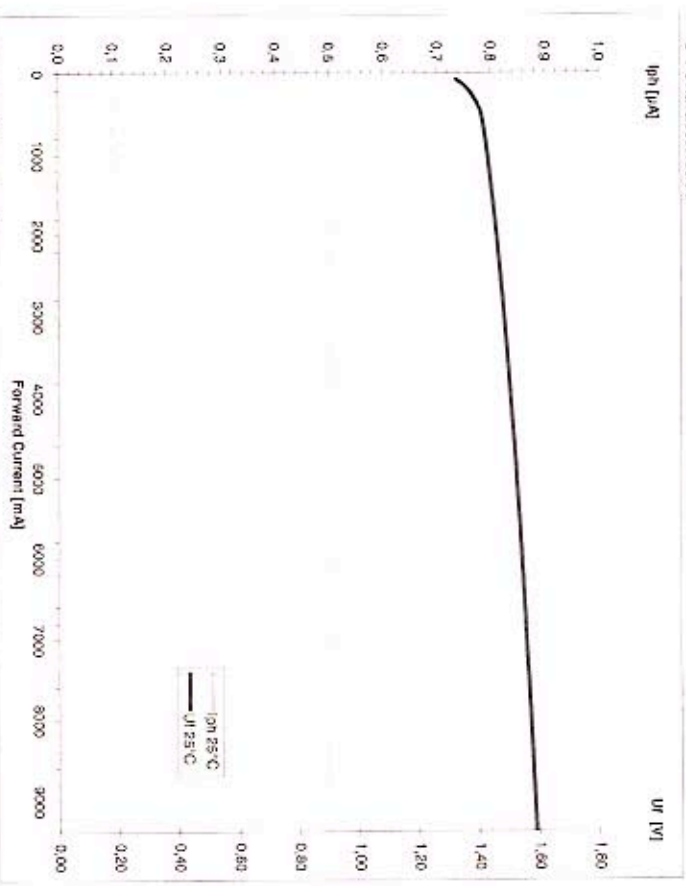
L-I Characteristics



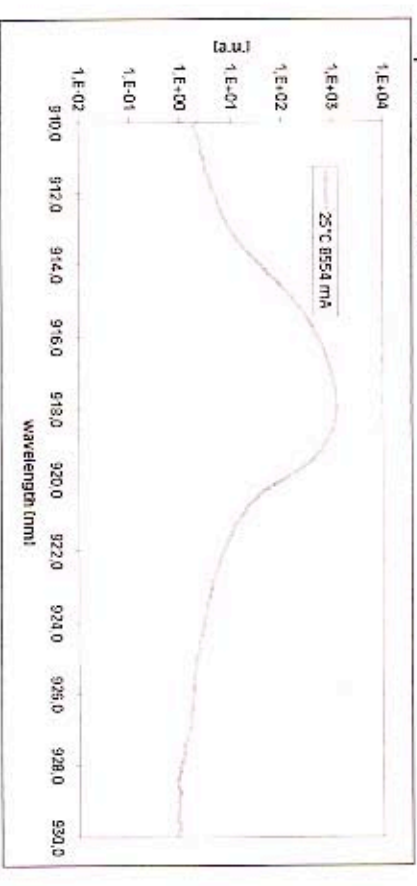
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U-I Characteristics



Spectral Characteristics





Dimensions

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Termination

Termination Type	APC
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Fiber Type	AFS10S125Y10.22j
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Pin Connection	1 Laser Anode
	2 Laser Cathode



Precautions

1. The laser light emitter from this device is **invisible** and may be **harmful** to the human eye and skin. Avoid looking directly into the fiber when the device is in operation. Use of protective gear is recommended when the device is in operation.
2. To maximize thermal transfer to the heatsink, the heatsink mounting surface must be flat to within 0.025mm and the mounting screws must be torqued down to 0.17Nm
3. The TEC current should never exceed the **Maximum TEC Current Rating** specified in the data sheet. Any over current may heat the laser and the internal optical bench such that the optical power drops irreversibly by a significantly value.
4. **Power supply:** Transient electric spike (above maximum rated current) may cause a damage to the laser. A surge-free power supply and a slow starter circuit should be used. To avoid causing an electrical surge, pins should not be connected or disconnected on the fixture before turning the power off.
5. Electrostatic discharge is the primary cause of unexpected laser diode failure. Take extreme precaution to prevent ESD. Use wrist straps, grounded work surfaces and rigorous antistatic techniques when handling this device.
6. In order to minimize light reflection, the ferrule flange end of the fiber pigtail may be 8degree angle polished. Keep ferrule flange end surface clean to **prevent contaminated dirt or scratch.**
7. Extremely **careful attention** is required when this pump laser module is in operation. This device should be operated and handled by experienced personnel. Any doubted matters during or before operation should be discussed with Lumics.

