

RLT1500-30G

ATTENTION OBSERVE PRECAUTIONS FOR HANDLING

TECHNICAL DATA

Sample Nr. 26-1439

Infrared Laser Diode

Features

- Lasing Mode Structure: Single mode
- Peak Wavelength : typ. 1500 nm
- Optical Ouput Power: 30 mW
- Package: 9 mm

Electrical Connection

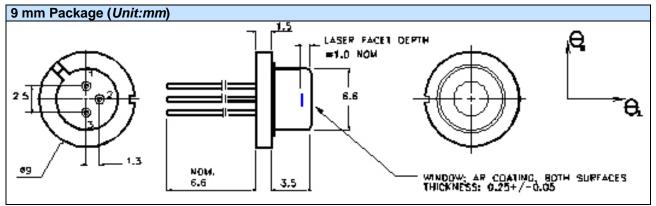


	Pin Config	juration	Bottom View
	n-type		2
	PIN	Function	
	1	LD Cathode	$\rightarrow \oplus + \oplus \rightarrow$
	2	LD Anode, PD Cathode	
	3	PD Anode	
02			

Typical Characteristics

Characteristics	Symbols	Values	Unit
CW Output Power	Pop	30	mW
Operating Current	I _{op}	120	mA
Threshold Current	l _{th}	42	mA
Operating Voltage	U _{op}	<2	V
Peak wavelength	λ	1503	nm
FWHM Beam Divergence	Θ	8.5	deg
	Θ⊥	34	deg
Monitor Current	I _m	87	μA
Monitor Voltage	U _m	<5	V
Operating Temperature	T _{op}	25	°C
Package		9 mm	

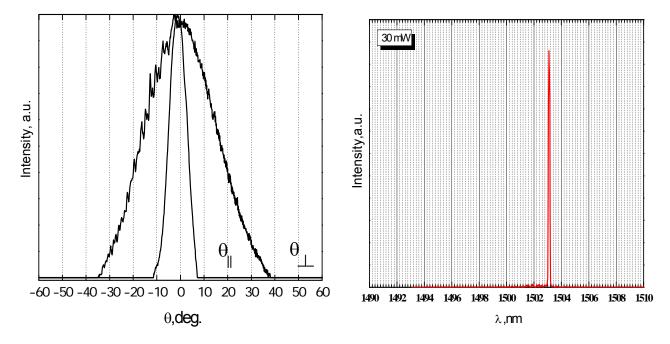
Package Dimensons





Typical beam divergence

Emitting spectra





Safety of Laser light

• Laser Light can damage the human eyes and skin. Do not expose the eye or skin directly to any laser light and/or through optical lens. When handling the LDs, wear appropriate safety glasses to prevent laser light, even any reflections from entering to the eye. Focused laser beam through optical instruments will increase the chance of eye hazard.



Cautions

1. Operating methode

- This LD shall change its forward voltage requirement and optical ouput power according to temperature change. Also, the LD will require more operation current to maintain same ouput power as it degrades. In order to maintain output power, use of APC (Automatic Power Control) is recommended. Which use monitor feedback to adjust the operation current.
- Confirm that electrical spike current generated by swithing on and off does not exceed the maximum operating current level specified herein above as absolute maximum rating. Also, employ appropriat countermeasures to reduce chattering and/or overshooting in the circuit.

2. Static Electricity

• Static electricity or electrical surges will reduce and degrade the reliability of the LDs. It is recommended to use a wrist trap or anti-electrostatic glove when handeling the product.

3. Absolute Maximum Rating

• Active layer of LDs shall have high current density and generate high electric field during its operation. In order to prevent excessive damage, the LD must be operated strictly below absolute maximum rating.

