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WIEDNER HAUPTSTRASSE 76 1040 VIENNA AUSTRIA
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RLT1300-BL



TECHNICAL DATA

Infrared Laser Diode

Features

- Lasing Mode Structure: single mode
- Peak Wavelength : typ. 1310 nm
- Optical Ouput Power: 5 mW
- Package: 5.6 mm, 4-pin, ball lens

Applications

- Optical Fiber Communication
- Free-space Optical Communication

Specifications (25°C)

Characteristics	Symbol	Min.	Typ.	Max.	Unit
Optical Specifications					
CW Output Power	P_O	-	5	-	mW
Center Wavelength	λ_C	1290	1310	1330	nm
Spectral Width	$\Delta\lambda$	-	≤ 3.0	-	nm
Emitting area	W x H	-	4 x 1	-	µm
Wavelength Temperature Coefficient		-	0.35	-	nm/°C
Beam Divergence	$\theta_\perp \times \theta_\parallel$	-	40x20	-	Deg
Polarization			TE		
Electrical Specifications					
Threshold Current	I_{th}	-	10	-	mA
Operating Current	I_{op}	-	27	-	mA
Operating Voltage	V_{op}				V
Monitor Current	I_{PD}				mA
Package Style			TO18, 4-pin		
Absolute Maximum Ratings					
Reverse Voltage	U_R				V
Operating Temperature	T_{OP}		+10 … +30		°C
Storage Temperature	T_{STG}		-40 ... +85		°C



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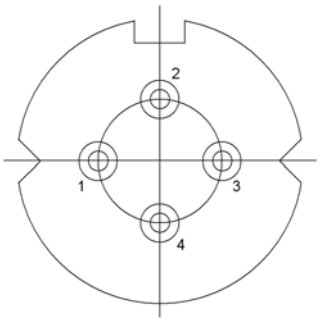
Electrical Connection

TO18 Package (*Buttom View*)



Pin 1: PD Cathode
Pin 2: n.c.
Pin 3: LD Cathode
Pin 4: LD Anode, PD Anode

Notes

1. High power laser diodes are high energy laser devices. It is harmful to human body and health. Never look directly into the laser output port.
2. High power laser diodes could operate in forward voltage. The reverse current and voltage should not be higher than 25µA and 3V, respectively.
3. Heavy humidity can get dew on the LD then damage the LD.
4. The generated heat must be removed in time when the LD working.
5. The high temperature will effect the performance of the products. The lifetime can also be shortened by high temperature.
6. The operating current and optical power of laser must not be higher than the given rate current and power. The excessive current would accelerate aging and shorten lifetime, even damage the LD.
7. The semiconductor laser diode is a sensitive electronic device. Please observe precaution for handling electrostatitic sensitive devices.