
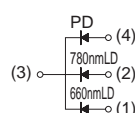




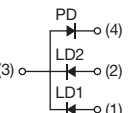
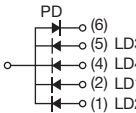


### 660nm / 780nm Dual Wavelength Lasers

Part No.	Wavelength $\lambda_p$ (nm)	Absolute maximum ratings (Tc=25°C)			Electrical and optical characteristics (Tc=25°C)							Po (mW)	Package	Equivalent circuit	RoHS
		Po (mW)	VR (V)	Topr Max. (°C)	ITH (mA)	Iop (mA)	$\eta$ (W/A)	Vop (V)	Im (mA)	$\theta_{\perp}$ (deg)	$\theta_{//}$ (deg)				
RLD2WMFV2	658	7	2	75	20	27	0.72	2.3	0.13	27	8	5			Yes
	782	7	2	75	18	27	0.55	1.8	0.16	32	9	5			
RLD2WMNL2 (For Car)	663	7	2	85	18	24	0.7	2.3	0.25	28	10	5			Yes
	785	7	2	85	15	20	0.7	1.8	0.25	32	10	5			
RLD2WMFL3 (Operation guarantee at 80°C)	658	7	2	80	13	18	0.9	2.2	0.15	27	8.5	5			Yes
	782	7	2	80	12	17	0.85	1.8	0.17	32	10	5			
RLD2WMFR1 (Self pulsation)	658	6	2	70	35	45	0.75	2.3	0.13	37	9	5			Yes
	790	7	2	70	30	45	0.5	1.9	0.26	39	11	5			

Notes : 1. Unless otherwise specified, the electrical and optical characteristics are typical values.  
2. Above characteristics are typical specs. Please contact us for the custom characteristics.


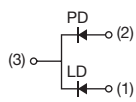



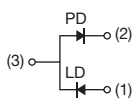


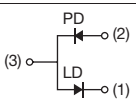
### Multi-beam Lasers

Part No.	Number of beams	Pitch (μm)	Wavelength $\lambda_p$ (nm)	Absolute maximum ratings (Tc=25°C)			Electrical and optical characteristics (Tc=25°C)							Po (mW)	Package	Equivalent circuit	RoHS
				PO (mW)	VR (V)	Topr Max. (°C)	ITH (mA)	Iop (mA)	$\eta$ (W/A)	Vop (V)	Im (mA)	$\theta_{\perp}$ (deg)	$\theta_{//}$ (deg)				
RLD2BPNK4	2	90	792	6	2	60	10	30	0.3	1.8	3	29	9.5	6			Yes
RLD2BPNK5	2	28	787	10	2	60	12	23	0.55	1.8	0.9	27.5	9	6			Yes
RLD2BPNK2	2	28	787	15	2	60	12	29	0.55	1.8	1.5	27.5	9	10			Yes
☆RLD2BPND1	2	30	660	15	2	60	13	23	0.6	2.2	0.5	20	10	6			Yes
☆RLD4BPMP1	4	28	792	10	2	60	10	30	0.3	1.8	0.5	27	9	6			Yes
☆RLD4BPMP2	4	28	792	15	2	60	14	25	0.55	1.7	1.3	27	9	6			Yes

☆ : Under development


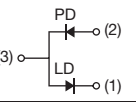


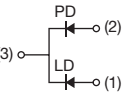

Notes : 1. Unless otherwise specified, the electrical and optical characteristics are typical values.  
2. Above characteristics are typical specs. Please contact us for the custom characteristics.

## 660nm Lasers

Part No.	Wavelength $\lambda_p$ (nm)	Absolute maximum ratings (Tc=25°C)			Electrical and optical characteristics (Tc=25°C)							Po (mW)	Package	Equivalent circuit	RoHS
		PO (mW)	VR (V)	Topr Max. (°C)	ITH (mA)	Iop (mA)	$\eta$ (W/A)	Vop (V)	Im (mA)	$\theta_{\perp}$ (deg)	$\theta_{\parallel}$ (deg)				
RLD65MZT7	655	7	2	70	20	30	0.7	2.3	0.24	27	8	5	 $\phi$ 5.6mm		Yes
RLD65MFX1 (Higher ESD)	660	7	2	80	15	21	0.85	2.3	0.15	27	9	5	 High radiation 4PIN fram		Yes
<b>New</b> RLD65MQX1 (Higher ESD)	660	10	2	70	15	21	0.85	2.3	0.15	27	9	5	 $\phi$ 3.5mm		Yes
RLD65PZX2 (Higher ESD)	655	7	2	70	25	33	0.6	2.3	0.2	28	8.5	5	 $\phi$ 5.6mm		Yes
RLD65PZX3 (Higher ESD)	655	12	2	70	25	42	0.6	2.3	0.2	28	8.5	10	 $\phi$ 5.6mm		Yes
RLD65NZX2 (Higher ESD)	655	7	2	70	25	33	0.6	2.3	0.2	28	8.5	5	 $\phi$ 5.6mm		Yes

Note: Unless otherwise specified, the electrical and optical characteristics are typical values.

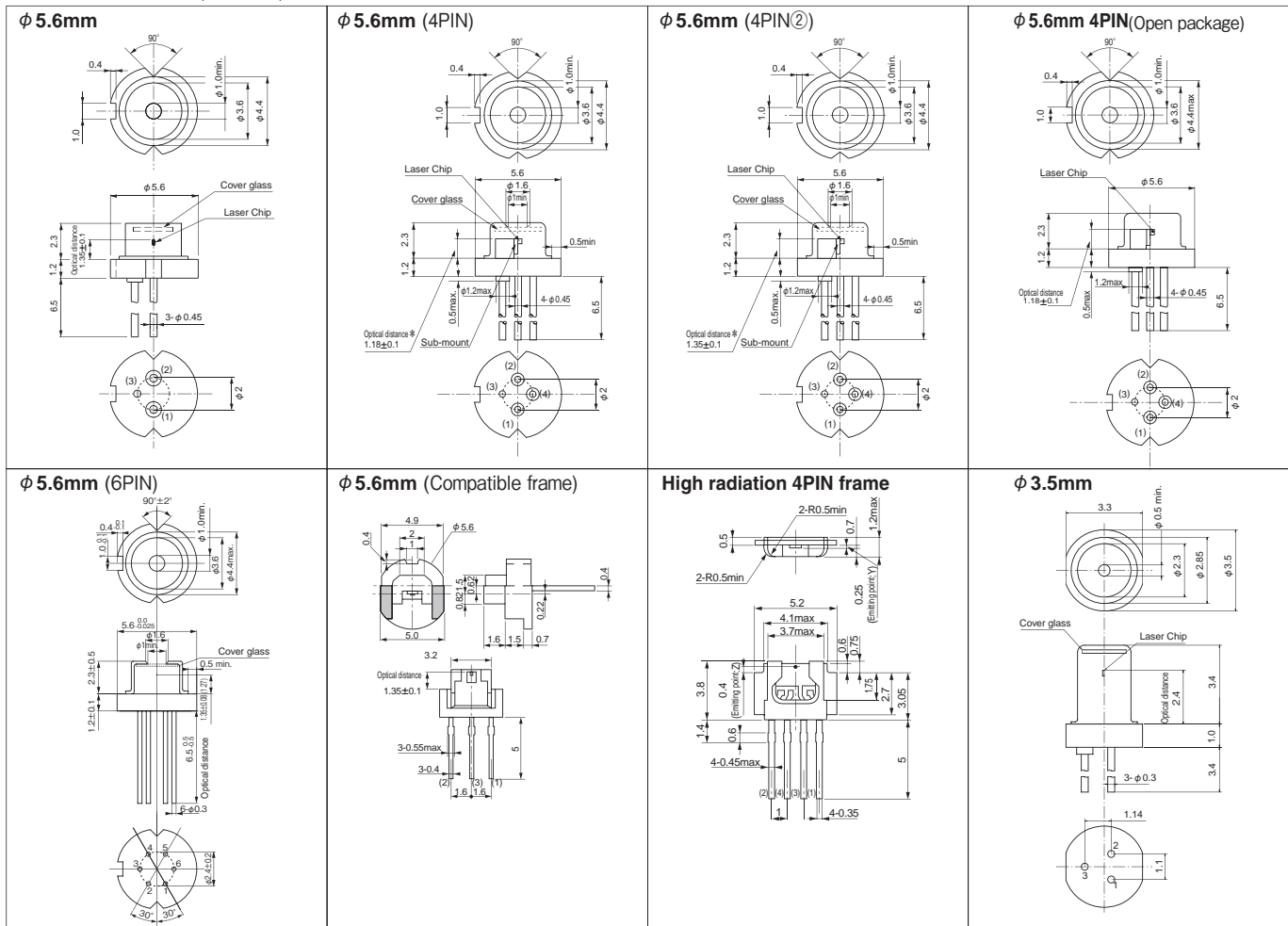
## 780nm Lasers

Part No.	Wavelength $\lambda_p$ (nm)	Absolute maximum ratings (Tc=25°C)			Electrical and optical characteristics (Tc=25°C)							Po (mW)	Package	Equivalent circuit	RoHS
		PO (mW)	VR (V)	Topr Max. (°C)	ITH (mA)	Iop (mA)	$\eta$ (W/A)	Vop (V)	Im (mA)	$\theta_{\perp}$ (deg)	$\theta_{\parallel}$ (deg)				
RLD78NZM5	793	10	2	60	11	20	0.55	1.8	1.15	28	9	6	 $\phi$ 5.6mm		Yes
RLD78MRA6	790	4.5	2	70	25	35	0.35	1.9	0.15	37	11	3	 $\phi$ 5.6mm (Compatible frame)		Yes
RLD78MZM7	792	20	2	60	11	33	0.65	1.8	0.5	24	8.5	15	 $\phi$ 5.6mm		Yes
<b>New</b> RLD78MFA7	790	4.5	2	85	25	35	0.35	1.9	0.15	37	11	3	 High radiation 4PIN frame		Yes

Note: Unless otherwise specified, the electrical and optical characteristics are typical values.

# Packaging Specifications

## ■ Dimensions (Unit : mm)

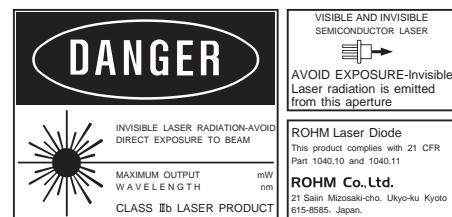


\* : Please note that differences may exist depending on the part number. Therefore, it is strongly recommended that the customer verify the actual specifications before usage.

## ■ Safety

The light emitted from laser diodes, can cause retinal damage if viewed directly. Never look directly into the laser beam or through any lenses or fibers when the system is operating.

For optical axis alignment or other operations, we recommend the use of an infrared-sensitive camera (ITV) or wearing protective goggles.



The products described in this specification are designed to be used with ordinary electronic equipment or devices (such as audio-visual equipment, office-automation equipment, communication device, electrical appliances, and electronic toys). If you intend to use these products or devices which require an extremely high level of reliability and malfunction of which would directly endanger human life (such as medical instruments, transportation equipment, aerospace machinery, nuclear-reactor controllers, fuel controllers and other safety devices), please be sure to consult with our sales representative in advance.

## Notes

- 1) The information contained herein is subject to change without notice.
- 2) Before you use our Products, please contact our sales representative and verify the latest specifications :
- 3) Although ROHM is continuously working to improve product reliability and quality, semiconductors can break down and malfunction due to various factors.  
Therefore, in order to prevent personal injury or fire arising from failure, please take safety measures such as complying with the derating characteristics, implementing redundant and fire prevention designs, and utilizing backups and fail-safe procedures. ROHM shall have no responsibility for any damages arising out of the use of our Products beyond the rating specified by ROHM.
- 4) Examples of application circuits, circuit constants and any other information contained herein are provided only to illustrate the standard usage and operations of the Products. The peripheral conditions must be taken into account when designing circuits for mass production.
- 5) The technical information specified herein is intended only to show the typical functions of and examples of application circuits for the Products. ROHM does not grant you, explicitly or implicitly, any license to use or exercise intellectual property or other rights held by ROHM or any other parties. ROHM shall have no responsibility whatsoever for any dispute arising out of the use of such technical information.
- 6) The Products are intended for use in general electronic equipment (i.e. AV/OA devices, communication, consumer systems, gaming/entertainment sets) as well as the applications indicated in this document.
- 7) The Products specified in this document are not designed to be radiation tolerant.
- 8) For use of our Products in applications requiring a high degree of reliability (as exemplified below), please contact and consult with a ROHM representative : transportation equipment (i.e. cars, ships, trains), primary communication equipment, traffic lights, fire/crime prevention, safety equipment, medical systems, servers, solar cells, and power transmission systems.
- 9) Do not use our Products in applications requiring extremely high reliability, such as aerospace equipment, nuclear power control systems, and submarine repeaters.
- 10) ROHM shall have no responsibility for any damages or injury arising from non-compliance with the recommended usage conditions and specifications contained herein.
- 11) ROHM has used reasonable care to ensure the accuracy of the information contained in this document. However, ROHM does not warrant that such information is error-free, and ROHM shall have no responsibility for any damages arising from any inaccuracy or misprint of such information.
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