

660nm / 780nm Dual Wavelength Lasers

Power 660nm / 780nm	Part No.	Wavelength λ_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)	I _{TH} (mA)	I _{op} (mA)	η (W/A)	V _{op} (V)	I _m (mA)	θ_{\perp} (deg)	$\theta_{//}$ (deg)					
Low / Low	RLD2WMUV2	658	7	2	75	20	27	0.72	2.3	0.22	27	8	5			Yes	
		782	7	2	75	18	27	0.55	1.8	0.25	32	9	5				
	RLD2WMFV2	658	7	2	75	20	27	0.72	2.3	0.13	27	8	5	High radiation 4PIN frame			
		782	7	2	75	18	27	0.55	1.8	0.16	32	9	5				
	RLD2WMFL1 (Higher ESD)	660	7	2	75	13	19	0.85	2.3	0.15	27.5	8.5	5	High radiation 4PIN frame			
		782	7	2	75	12	18	0.75	1.8	0.20	29.5	9.3	5				
	RLD2WMNL2 (For Car)	663	7	2	85	18	24	0.7	2.3	0.25	28	10	5				
		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	High radiation 4PIN frame			
		782	7	2	80	12	17	0.85	1.8	0.17	32	10	5				
	RLD2WMUL3 (Operation guarantee at 80°C)	658	7	2	80	13	18	0.9	2.2	0.25	27	8.5	5				
		782	7	2	80	12	17	0.85	1.8	0.25	32	10	5				
RLD2WMFR1 (Self pulsation)	658	6	2	70	35	45	0.75	2.3	0.13	37	9	5	High radiation 4PIN frame				
	790	7	2	70	30	45	0.5	1.9	0.26	39	11	5					
High / High	☆RLD2WVGU1	662	300 (Pulse)	2	85	60	160	0.9	2.8	—	17.5	9.5	90			Yes	
		785	350 (Pulse)	2	90	55	250	0.85	2.5	—	16	8.5	160				


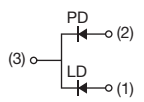



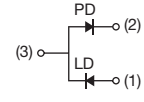


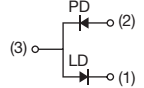
☆ : Under development Note: Unless otherwise specified, the electrical and optical characteristics are typical values.

Multi-beam Lasers

Power 660nm / 780nm	Part No.	Number of beams	Pitch (μ m)	Wavelength λ_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)	I _{TH} (mA)	I _{op} (mA)	η (W/A)	V _{op} (V)	I _m (mA)	θ_{\perp} (deg)	$\theta_{//}$ (deg)					
High Speed	New 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				
	☆RLD2BPND1	2	30	660	15	2	60	13	23	0.6	2.2	0.5	20	10	6				
	☆RLD4BPMP1	4	28	792	10	2	60	10	30	0.3	1.8	0.5	30	10	6				
	☆RLD4BPMB6	4	30	660	16	2	60	15	25	0.6	2.3	1	20	9	9				


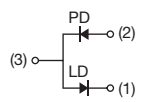


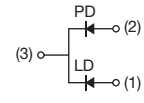



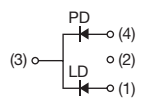

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660nm Lasers

Power 660nm /780nm	Part No.	Wavelength λ_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)	η (W/A)	Vop (V)	Im (mA)	θ_{\perp} (deg)	$\theta_{//}$ (deg)					
Low Power	RLD65MZT7	655	7	2	70	20	30	0.7	2.3	0.24	27	8	5	 ϕ 5.6mm		Yes	
	New RLD65MF1 (Higher ESD)	660	7	2	80	15	21	0.85	2.3	0.15	27	9	5	 High radiation 4PIN frame		Yes	
	☆RLD65MQX1 (Higher ESD)	660	10	2	70	15	21	0.85	2.3	0.15	27	9	5	 ϕ 3.5mm		Yes	
	New RLD65PZX2 (Higher ESD)	655	7	2	70	25	33	0.6	2.3	0.2	28	8.5	5	 ϕ 5.6mm		Yes	
	New RLD65PZX3 (Higher ESD)	655	12	2	70	25	42	0.6	2.3	0.2	28	8.5	10	 ϕ 5.6mm		Yes	
	New RLD65NZX2 (Higher ESD)	655	7	2	70	25	33	0.6	2.3	0.2	28	8.5	5	 ϕ 5.6mm		Yes	

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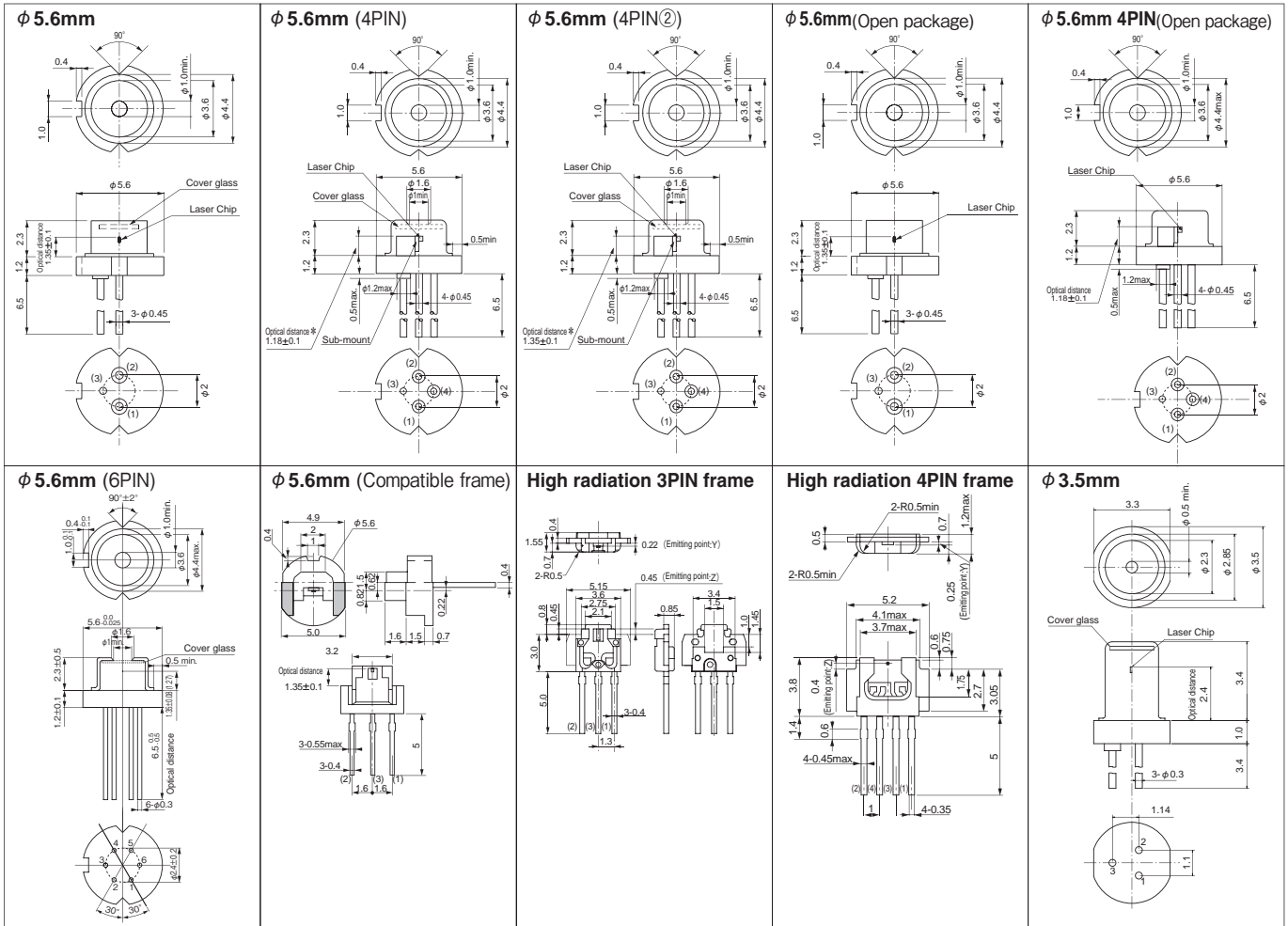
780nm Lasers

Power 660nm /780nm	Part No.	Wavelength λ_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)	η (W/A)	Vop (V)	Im (mA)	θ_{\perp} (deg)	$\theta_{//}$ (deg)					
High Speed	New RLD78NZM5	793	10	2	60	11	20	0.55	1.8	1.15	28	9	6	 ϕ 5.6mm		Yes	
	New RLD78NZM6	793	15	2	60	10	20	0.55	1.8	1.15	28	9	6	 ϕ 5.6mm		Yes	
Low Power	RLD78MRA1	785	4.5	2	70	35	45	0.25	1.9	0.15	37	11	3	 ϕ 5.6mm (Compatible frame)		Yes	
	New RLD78MRA6	790	4.5	2	70	25	35	0.35	1.9	0.15	37	11	3	 ϕ 5.6mm (Compatible frame)		Yes	
	RLD78MZGM	785	5	2	60	35	45	0.25	1.9	0.2	37	11	3	 ϕ 5.6mm		Yes	
	RLD78MFA1	785	4.5	2	80	35	41	0.3	1.9	0.16	37	11	3	 High radiation 4PIN frame		Yes	
	New 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, while almost invisible to the human eye, 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.

	VISIBLE AND INVISIBLE SEMICONDUCTOR LASER
	AVOID EXPOSURE-Invisible Laser radiation is emitted from this aperture
INVISIBLE LASER RADIATION-AVOID DIRECT EXPOSURE TO BEAM	
MAXIMUM OUTPUT WAVELENGTH CLASS IIb LASER PRODUCT	mW nm ROHM Laser Diode This product complies with 21 CFR Part 1040.10 and 1040.11 ROHM Co., Ltd. 21 Saini Mizosaki-cho, Ukyo-ku Kyoto 615-8585, Japan.

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