

2-Wavelength Laser Diodes for DVD/CD Playback

RLD2WMUL3 / RLD2WMFL3 Series



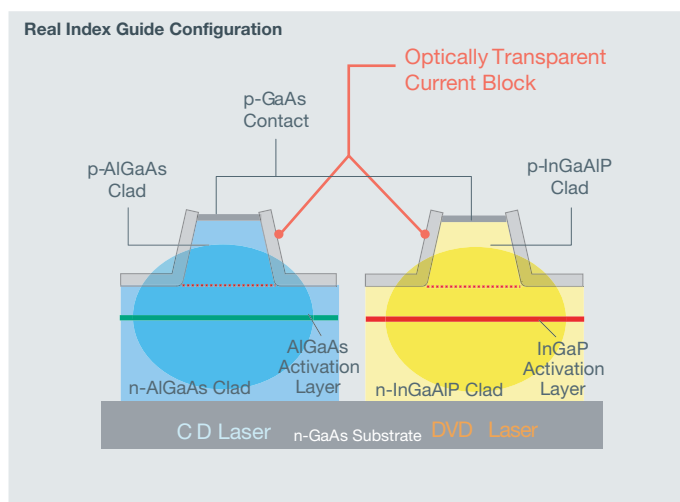
Supports high temperature operation for gaming consoles and portable equipment

Product Outline

ROHM's new dual-wavelength laser diodes for CD/DVD playback feature a higher operating temperature range than conventional products, making them ideal for gaming systems and portable devices. An original device structure is used for low current, high temperature (up to 80°C) operation. Two package types are offered, the standard 5.6φ CAN type (open spec with no glass window) and ROHM's original high heat dissipation resin mold frame package.

■ New waveguide enables low current operation

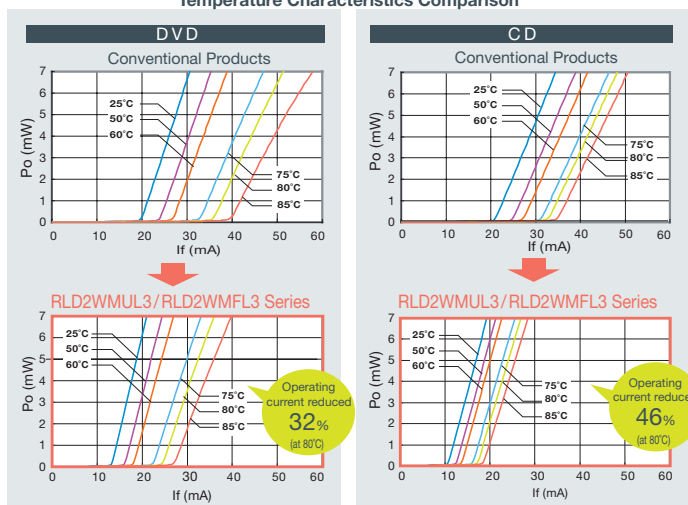
An optically transparent real index guide is utilized to minimize loss due to light absorption, allowing operation with minimal current.



■ High temperature operation (80°C)

Operating current is reduced by 32% and 46% for DVD and CD playback, respectively, compared with conventional products (RLD2WMUV2 / RLD2WMFV2). Stable operation is guaranteed up to 80°C, 5°C more than standard models.

Temperature Characteristics Comparison

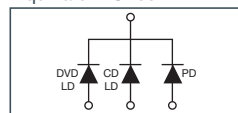


Specifications

Absolute Maximum Ratings

Part No.	Light Output Po (mW)	Reverse Voltage Vr (V)	Operating Temp. Topr (°C)	Storage Temp. Tstg (°C)
RLD2WMUL3	7/7	2/2	-10 to +80	-40 to +85
RLD2WMFL3	7/7	2/2	-10 to +80	-40 to +85

Equivalent Circuit



Electrical • Optical Characteristics (Tc=25°C, Po=5mW)

Part No.	Oscillation Wavelength lp (nm)	Threshold Current Ith (mA)	Operating Current Iop (mA)	Operating Voltage Vop (V)	Monitor Current Im (mA)	Horizontal Divergence q//(deg)	Vertical Divergence q⊥(deg)
RLD2WMUL3	658/782	13/12	18/17	2.2/1.8	0.25/0.25	8.5/10	27/32
RLD2WMFL3	658/782	13/12	18/17	2.2/1.8	0.15/0.17	8.5/10	27/32

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ROHM Co., Ltd.

21 Saini Mizosaki-cho, Ukyo-ku,
Kyoto 615-8585 Japan
TEL.: +81-75-311-2121 FAX.: +81-75-315-0172
www.rohm.com

