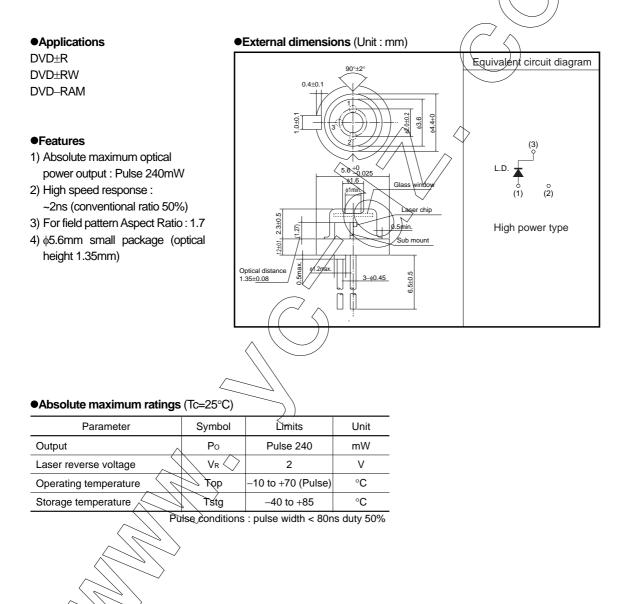
## DVD-Record, High power red laser diode RLD65PZB5

The RLD65PZB5 is the red high-output semiconductor laser developed since it corresponded to the high speed needs of the optical pick up for DVD record.

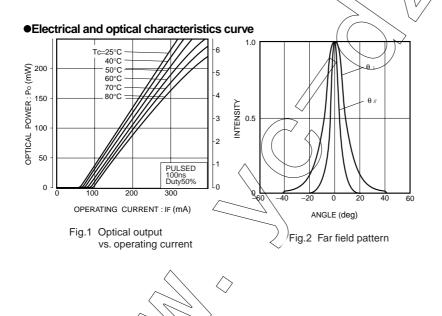


## Laser Diodes

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Threshold current	Ith*1	-	60	75	mA	CW
Operating current	lop*1	-	150	200	mA	CW : Po=80mW
Operating voltage	V <sub>op</sub> *1	-	2.7	3.2	V	CW : Po=80mW
Differential efficiency	η* <sup>1</sup>	0.7	1.0	1.3	mW/mA	CW : 30mW / (I(80mW) –I(50mW))
Monitor current	lm*1	-	_	-	mA	-
Parallel divergence angle	θ // *1	8	10	13	-	CW : Po=100mW
Perpendicular divergence angle	θ ⊥* <sup>1</sup>	15	17	19		
Parallel deviation angle	Δφ // <sup>*1</sup>	-2.0	0	+2.0		
Perpendicular deviation angle	$\Delta \phi \perp^{\ast 1}$	-3.0	0	+3.0		
Emission point accuracy	∆XYZ <sup>*1</sup>	-80	0	+80	μm	-
Peak emission wave length	λ* <sup>1</sup>	650	658	662	nm	CW : Po=80mW
Astigmatism	As*2	-	_	6	μm	CVŴ Po=80mW

## ●Electrical and optical characteristics (Tc=25°C)

\*  $\theta$  // and  $\theta$   $_{\perp}$  are defined as the angle within which the intensity is 50% of the peak value.



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Appendix1-Rev1.0