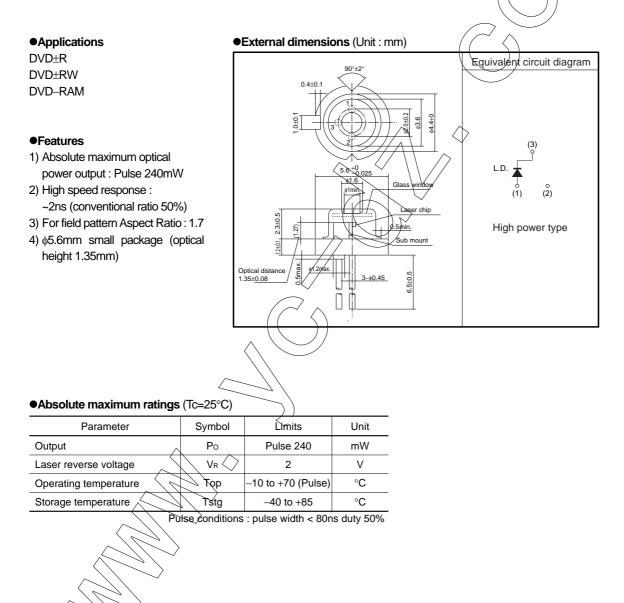
DVD-Record, High power red laser diode RLD65PZB5

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.

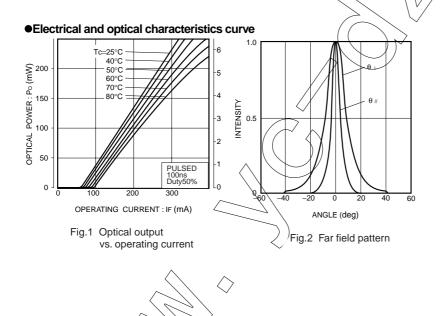


Laser Diodes

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 _{op} *1	-	2.7	3.2	V	CW : Po=80mW
Differential efficiency	η* ¹	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 ⊥* ¹	15	17	19		
Parallel deviation angle	Δφ // ^{*1}	-2.0	0	+2.0		
Perpendicular deviation angle	$\Delta \phi \perp^{\ast 1}$	-3.0	0	+3.0		
Emission point accuracy	∆XYZ ^{*1}	-80	0	+80	μm	-
Peak emission wave length	λ* ¹	650	658	662	nm	CW : Po=80mW
Astigmatism	As*2	-	_	6	μm	CVŴ Po=80mW

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

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



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