Red Laser for DVD-player, Combination RLD65MPT5

Glass-less structure Red Laser for DVD-player, Combination. Low Ith & good temperature characteristics made by suitability of Multi Quantum Well.

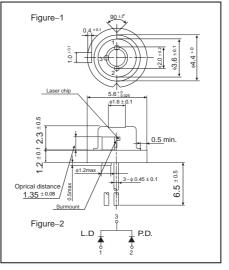
Applications

DVD-player COMBO drive Bar cord scanner Sensor

Features

- 1) Glass less structure
- 2) Low Ith : 20mA (Po=5mW, Tc=25°C)
- 3) Excellent temparetuer charactreristic

•External dimensions (Unit : mm)



Absolute maximum ratings (Tc=25°C)

Parameter		Symbol	Limits	Unit
Output		Po	7	mW
Reverse voltage	Laser	VR	2	V
	PIN photodiode	VR (PIN)	30	V
Operating temperature		Topr	-10 to +70	°C
Storage temperature		Tstg	-40 to +85	°C

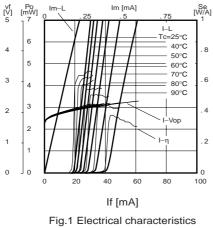
Laser Diodes

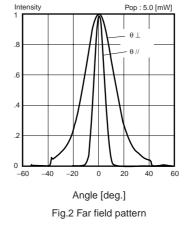
Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Threshold current	lth	-	20	60	mA	_
Operating current	lop	_	30	70	mA	Po=5mW
Operating voltage	Vop	-	2.3	2.6	V	Po=5mW
Differential efficiency	η	0.2	0.4	0.8	mW/mA	_
Monitor current	Im	0.1	0.2	0.5	mA	Po=5mW
Parallel divergence angle	θ//*	6.5	8	10	deg	Po=5mW
Perpendicular tolerance angle	$\theta \perp^*$	20	27	35	deg	Po=5mW
Parallel tolerance angle	Δφ //	-2	0	2	deg	Po=5mW
Perpendicular tolerance angle	$\Delta \phi \perp$	-3	0	3	deg	Po=5mW
	ΔΧ		0	80	μm	_
Emission point accuracy	ΔΥ	-80				
	ΔZ					
Lasing wavelength	λ	645	655	662	nm	Po=5mW
Astigmatism	ΔΙ	-	-	10	μm	Po=5mW

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

 \ast $\theta \bot$, θ // are defined as full width of half maximum.

•Electrical and optical characteristics curves





vs. package temparetuer

RLD65MPT5

Laser Diodes

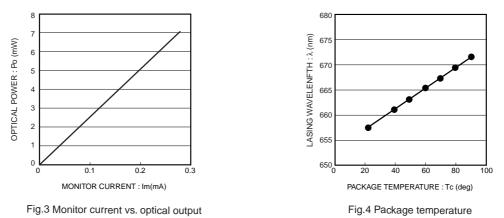


Fig.4 Package temperature vs. wavelength

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