

# HUH7297

For DVD Multi Drives

(From 24 × to 48 × writing / 48 × reading for CD-R)

NEW

## Features

- Window structured high power laser diode with real index guide structure provides high speed recording
- From 24 × to 48 × speed writing/ 48 × speed reading for CD-R
- Correspondence for gain switch averaging servo
- Included sleep function

## Error Signal Detection Method

- Focus error signal detection : SSD method
- Tracking error signal detection : 3-beam PP method

## Package Code

- LDHU06-2

## Absolute Maximum Ratings $T_a = 25^\circ\text{C}$

Parameter	Symbol	Ratings	Unit
Output power	$P_O$	90(CW), 210(Pulse)	mW
Reverse voltage	$V_{R(LD)}$	1.5	V
Supply voltage	$V_{CC}$	6	V
Reference voltage	$V_{ref}$	+1.5 to +1.8	V
Operating case temperature	$T_C$	-10 to +75	$^\circ\text{C}$
Storage temperature	$T_{stg}$	-40 to +85	$^\circ\text{C}$

## Unit Characteristic Specifications $T_C = 25^\circ\text{C} \pm 3^\circ\text{C}$

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Threshold current	$I_{th}$	CW	10	26	35	mA
Operating current	$I_{OP}$	CW, $P_O = 80\text{ mW}$	85	115	150	mA
Operating voltage	$V_{OP}$		1.6	1.9	2.5	V
Oscillation wavelength	$\lambda$	$P_{LO} = 1.25\text{ mW}$ , $V_{CC} = 5\text{ V}$ $V_{ref} = 1.65\text{ V}$ *At time of a high gain	779	785	791	nm
Focus error signal amplitude	$V_{FE}$		280	445	610	mV
Focus error signal balance	$B_{FE}$		-20	0	+20	%
Main beam signal value	$V_{TE}$		480	770	1060	mV
Main beam signal balance	$B_{TE}$		-30	0	+30	%
Main sub signal ratio	MSR		1.6	2.6	3.6	—
RF signal value	$V_{RF}$		480	770	1060	mV