

HUH7298

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
- Adoption of 0.7 V clip circuit and ROPC terminal
- Included sleep function

Error Signal Detection Method

- Focus error signal detection : SSD method
- Tracking error signal detection :
3-beam PP method and DPD 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	λ	$P_{LO} = 1.25\text{ mW}$, $V_{CC} = 5\text{ V}$ $V_{ref} = 1.65\text{ V}$ *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