

HUL7212

For CD Player / Portable CD Player

Features

- Low voltage drive ($V_{CC} = 3\text{ V}$)
- Built-in I-V conversion amp.
- Low power consumption laser diode

Error Signal Detection Method

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

Package Code

- LDHU01

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

Parameter	Symbol	Ratings	Unit
Output power	P_O	3.6	mW
Reverse voltage	$V_{R(LD)}$	2	V
Supply voltage	V_{CC}	6	V
Reference voltage	V_{ref}	+1.3 to $V_{CC} - 1.3$	V
Operating ambient temperature	T_{opr}	-10 to +60	$^\circ\text{C}$
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	15	25	35	mA
Operating current	I_{OP}	CW, $V_{RF} = 520\text{ mV}$, $V_{CC} = 3\text{ V}$	20	32	45	mA
Operating voltage	V_{OP}		—	1.9	2.4	V
Oscillation wavelength	λ	CW, $V_{RF} = 520\text{ mV}$	775	795	815	nm
Focus error signal amplitude	V_{FE}	$V_{RF} = 520\text{ mV}$, $V_{CC} = 3\text{ V}$	260	440	620	mV
Focus error signal balance	B_{FE}		-10	0	+10	%
Tracking error signal amplitude	V_{TE}		170	280	390	mV
Tracking error signal balance	B_{TE}		-30	0	+30	%
Jitter	Jitter		—	—	6	ns
Focus error signal defocusing	D_{FO}		-10	0	+10	%