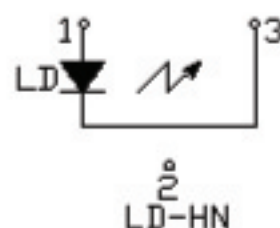


HLD405020H7J 405nm 20mW 70℃ Laser Diodes AUTO PACKAGE**■ Specifications for Blu-ray Disc / HD DVD drive**

Wavelength:	405nm
Light Output:	20mW CW
Package Type:	TO-18(Φ 5.6mm)

**■ Absolute Maximum Ratings (Tc=25℃)**

Parameter	Symbols	Ratings	Units
Optical Output	Po(CW)	20	mW
Reverse Voltage	Laser Vr	2	V
Operating Temperature	Top	-0 ~ +70	℃
Storage Temperature	Tstg	-40 ~ +80	℃

**■ Electrical and optical Characteristics(Tc=25℃)**

Parameter	Symbols	Conditions	Min	Typ	Max	Units	
Threshold Current	Ith	-	-	25	45	mA	
Operating Current	Iop	Po=10mW	-	35	55	mA	
Operating Voltage	Vop	Po=10mW	-	4.8	5.8	Volts	
Slope		-					
Efficiency	η	-	-	1.1	1.6	mW/mA	
Beam Divergence (FWHM)	Parallel	$\theta \parallel$	Po=10mW	6	9	14	deg
	Perpendicular	$\theta \perp$	Po=10mW	16	20	24	deg
Parallel Deviation Angle	$\Delta \theta \parallel$	Po=10mW	-3	-	3	deg	
Perpendicular Deviation Angle	$\Delta \theta \perp$	Po=10mW	-3	-	3	deg	
Lasing Wavelength	λ_p	Po=10mW	400	406	415	nm	

Im is sorting by custom's need

© $\theta \parallel$ and $\theta \perp$ are defined as the angle within which the intensity is 50% of the peak value.