

HLD37510N3J 375nm 10mW 25℃ Laser Diodes AUTO PACKAGE

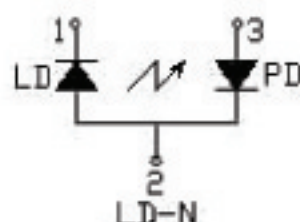
■ Specifications

Wavelength:	375nm
Light Output:	10mW CW
Package Type:	TO-18(Φ 5.6mm)



■ Absolute Maximum Ratings (Tc=25℃)

Parameter	Symbols	Ratings	Units	
Optical Output	Po(CW)	10	mW	
Reverse Voltage	Laser	Vr	2	V
	PIN PD	Vr (PIN)	30	V
Operating Temperature	Top	20 ~ 30	℃	
Storage Temperature	Tstg	-40 ~ +80	℃	



■ Electrical and optical Characteristics(Tc=25℃)

Parameter	Symbols	Conditions	Min	Typ	Max	Units	
Threshold Current	Ith	-	-	50	70	mA	
Operating Current	Iop	Po=10mW	-	70	90	mA	
Operating Voltage	Vop	Po=10mW	4.0	5.0	6.0	Volts	
Slope Efficiency	η	-	0.5	0.8	1.3	mW/mA	
Monitor Current	Im	Po=10mW	0.1	0.2	1.0	mA	
Beam Divergence (FWHM)	Parallel	θ	Po=10mW	5	9	15	deg
	Perpendicular	θ ⊥	Po=10mW	16	24	30	deg
Parallel Deviation Angle	Δ θ	Po=10mW	-3	-	3	deg	
Perpendicular Deviation Angle	Δ θ ⊥	Po=10mW	-2	-	2	deg	
Lasing Wavelength	λ p	Po=10mW	370	375	380	nm	

Im is sorting by custom's need

© θ || and θ ⊥ are defined as the angle within which the intensity is 50% of the peak value.