

HLD980100N4T 980nm 100mW 40°C IR Laser Diodes AUTO PACKAGE

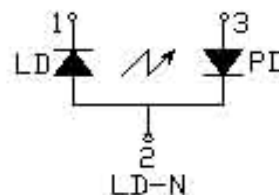
■Specifications

Wavelength:	980nm
Light Output:	100mW CW
Package Type:	TO-18(Φ 5.6mm)



■Absolute Maximum Ratings (Tc=25°C)

Parameter	Symbols	Ratings	Units
Optical Output	Po(CW)	100	mW
Reverse Voltage	Laser Vr	2	V
	PIN PD Vr (PIN)	30	V
Operating Temperature	Top	-10 ~ +40	°C
Storage Temperature	Tstg	-40 ~ +80	°C



■Electrical and optical Characteristics(Tc=25°C)

Parameter	Symbols	Conditions	Min	Typ	Max	Units
Threshold Current	Ith	-	-	35	55	mA
Operating Current	Iop	Po=100mW	-	160	180	mA
Operating Voltage	Vop	Po=100mW	-	1.6	2.1	Volts
Slope Efficiency	η	-	0.5	0.8	-	mW/mA
Monitor Current	Im	Po=100mW	-	0.2	0.8	mA
Beam Divergence (FWHM)	Parallel $\theta \parallel$	Po=100mW	8	12	14	deg
	Perpendicular $\theta \perp$	Po=100mW	30	35	40	deg
Parallel Deviation Angle	$\Delta \theta \parallel$	Po=100mW	-3	-	3	deg
Perpendicular Deviation Angle	$\Delta \theta \perp$	Po=100mW	-3	-	3	deg
Emission Point Accuracy	$\Delta X, \Delta Y, \Delta Z$	Po=100mW	-80	-	80	um
Lasing Wavelength	λp	Po=100mW	965	980	995	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.