



■ Electrical and optical Characteristics(Tc=25°C)			DN3		φ(CASE)	
Parameter	Symbols	Conditions	Min	Typ	Max	Units
Threshold Current	I _{th}	-	-	20	30	mA
Operating Current	I _{op}	Po=50mW	-	78	82	mA
Operating Voltage	V _{op}	Po=50mW	-	1.6	2.1	Volts
Slope		30mW-10mW				
Efficiency	η	10mW-10mW	0.5	0.8	-	mW/mA
Monitor Current	I _m	Po=50mW	-	0.2	0.8	mA
Beam Divergence (FWHM)	θ	Po=50mW	8	12	14	deg
	Parallel					
	Perpendicular		30	35	40	deg
Parallel Deviation Angle	Δθ	Po=50mW	-3	-	3	deg
Perpendicular Deviation Angle	Δθ _⊥	Po=50mW	-3	-	3	deg
Emission Point Accuracy	ΔX, ΔY, ΔZ	Po=50mW	-80	-	80	um
Lasng Wavelength	λ _p	Po=50mW	965	980	995	nm

I_m is sorting by custom's need

HLD980050N4T 980nm 50mW 40°C Laser Diodes

■ Specifications
 Wavelength: 980nm
 Light Output: 50mW CW
 Package Type: TO-18(φ 5.6mm)

■ Absolute Maximum Ratings (Tc=25°C)			
Parameter	Symbols	Ratings	Units
Optical Output	Po(CW)	50	mW
Reverse Voltage	V _r (Laser)	2	V
Voltage	V _r (PIN PD)	30	V
Operating Temperature	T _{op}	-10 ~ +40	°C
Storage Temperature	T _{stg}	-40 ~ +80	°C

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