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HLD780100H7J 780nm 100mW 70°C Laser Diodes

■ Specifications

Wavelength:	780nm
Light Output:	100mW CW (Push 250mW)
Package Type:	TO-18(Φ 5.6mm)

■ Absolute Maximum Ratings (Tc=25°C)

Parameter	Symbols	Ratings	Units
Optical Output	Po(CW)	110	mW
	Po(Push)	250	mW
Reverse Voltage	Vr	2	V
Operating Temperature	Top	-10 ~ +70	°C
Storage Temperature	Tstg	-40 ~ +80	°C

Push Width 0.1us , Duty50%

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

Parameter		Symbols	Conditions	Min	Typ	Max	Units
Threshold Current		Ith	-	-	55	70	mA
Operating Current		Iop	Po=100mW	-	150	165	mA
Operating Voltage		Vop	Po=100mW	-	2.0	2.3	Volts
Slope Efficiency		η	-	0.8	1.0	-	mW/mA
Beam Divergence (FWHM)	Parallel	θ ∥	Po=100mW	8	10	12	deg
	Perpendicular	θ ⊥	Po=100mW	16	20	22	deg
Parallel Deviation Angle		△ θ ∥	Po=100mW	-2	-	2	deg
Perpendicular Deviation Angle		△ θ ⊥	Po=100mW	-2	-	2	deg
Emission Point Accuracy		△X,△Y,△Z	Po=100mW	-80	-	80	um
Lasing Wavelength		λ p	Po=100mW	775	780	795	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.

