

LASER DIODE

Tel:400-7777-956; 0769-81181256 Fax:808

E-mail:josh.w@foxmail.com

LJ808LD500N4T 808nm 500 mW 40°C Laser Diodes

■ Specifications

Wavelength: 808nm
Light Output: 500mW CW
Package Type: TO-18(Φ 5.6mm)

■ Absolute Maximum Ratings (Tc=25°C)

Parameter	Symbols	Ratings	Units
Optical Output	Po	500	mW
Reverse	Laser	Vr	2
Voltage	PIN PD	Vr (PIN)	30
Operating Temperature	Top	-10 ~ +40	°C
Storage Temperature	Tstg	-40 ~ +85	°C

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

Parameter	Symbols	Conditions	Min	Typ	Max	Units
Threshold Current	Ith	-	-	100	200	mA
Operating Current	Iop	Po=500mW	-	550	700	mA
Operating Voltage	Vop	Po=500mW	-	2.2	3.1	Volts
Slope		-				
Efficiency	η	-	0.5	0.8	-	mW/mA
Monitor Current	Im	Po=500mW	-	0.2	0.8	mA
Beam Divergence	Parallel	Po=500mW	4	7	17	deg
(FWHM)	Perpendicular	Po=500mW	20	30	40	deg
Parallel Deviation Angle	$\Delta \theta \parallel$	Po=500mW	-3	-	3	deg
Perpendicular Deviation Angle	$\Delta \theta \perp$	Po=500mW	-3	-	3	deg
Emission Point Accuracy	$\Delta X, \Delta Y, \Delta Z$	Po=500mW	-80	-	80	um
Lasing Wavelength	λ_p	Po=500mW	805	808	815	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.

