

LASER DIODE

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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 Voltage	Laser	Vr	2	V
	PIN PD	Vr (PIN)	30	V
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		η	-	0.5	0.8	-	mW/mA
Efficiency			-				
Monitor Current		Im	Po=500mW	-	0.2	0.8	mA
Beam Divergence (FWHM)	Parallel	$\theta \parallel$	Po=500mW	4	7	17	deg
	Perpendicular	$\theta \perp$	Po=500mW	20	30	40	deg
Parallel Deviation Angle		$\triangle \theta \parallel$	Po=500mW	-3	-	3	deg
Perpendicular Deviation Angle		$\triangle \theta \perp$	Po=500mW	-3	-	3	deg
Emission Point Accuracy		$\triangle X, \triangle Y, \triangle Z$	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.

