

LASER DIODE

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LJ808LD500N4T

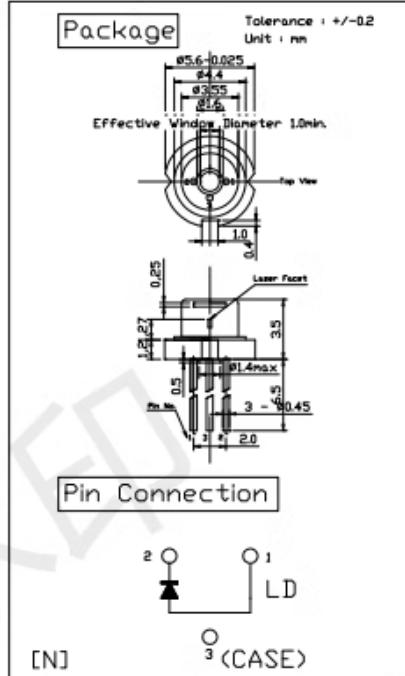
808nm 500 mW 40°C Laser Diodes

■ 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	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		-				
Efficiency	η	-	0.5	0.8	-	mW/mA
Monitor Current	Im	Po=500mW	-	0.2	0.8	mA
Beam Divergence (FWHM)	θ	Po=500mW	4	7	17	deg
Parallel	θ ⊥	Po=500mW	20	30	40	deg
Parallel Deviation Angle	△θ	Po=500mW	-3	-	3	deg
Perpendicular Deviation Angle	△θ ⊥	Po=500mW	-3	-	3	deg
Emission Point Accuracy	△X,△Y,△Z	Po=500mW	-80	-	80	um
Lasing Wavelength	λ p	Po=500mW	805	808	815	nm

Im is sorting by custom's need

θ || and θ ⊥ are defined as the angle within which the intensity is 50% of the peak value.