

LASER DIODE

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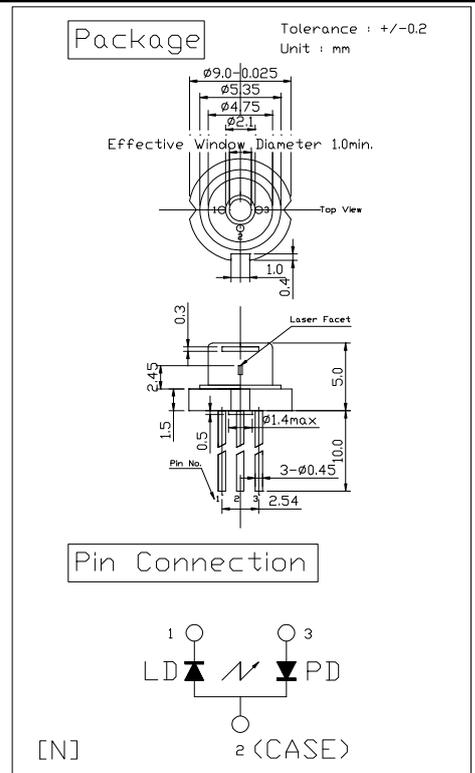
LJ850LD100N5T 850nm 100mW 50°C Laser Diodes

■ Specifications

Wavelength: 850nm
 Light Output: 100mW CW
 Package Type: TO-18(Φ9.0mm)

■ Absolute Maximum Ratings (Tc=25°C)

Parameter	Symbols	Ratings	Units	
Optical Output	Po(CW)	100	mW	
Reverse Voltage	Laser	Vr	2	V
	PIN PD	Vr (PIN)	30	V
Operating Temperature	Top	-10 ~ +50	°C	
Storage Temperature	Tstg	-40 ~ +80	°C	



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

Parameter	Symbols	Conditions	Min	Typ	Max	Units	
Threshold Current	Ith	-	-	100	140	mA	
Operating Current	Iop	Po=100mW	-	220	280	mA	
Operating Voltage	Vop	Po=100mW	-	1.7	2.0	Volts	
Slope Efficiency	η	-	0.6	0.9	-	mW/mA	
Monitor Current	Im	Po=100mW	-	1.0	-	mA	
Beam Divergence (FWHM)	Parallel	$\theta \parallel$	Po=100mW	5	6	8	deg
	Perpendicular	$\theta \perp$	Po=100mW	30	35	40	deg
Parallel Deviation Angle	$\Delta \theta \parallel$	Po=100mW	-3	-	3	deg	
Perpendicular Deviation Angle	$\Delta \theta \perp$	Po=100mW	-3	-	3	deg	
Emission Point Accuracy	$\Delta X, \Delta Y, \Delta Z$	Po=100mW	-80	-	80	um	
Lasing Wavelength	λp	Po=100mW	830	850	870	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.