

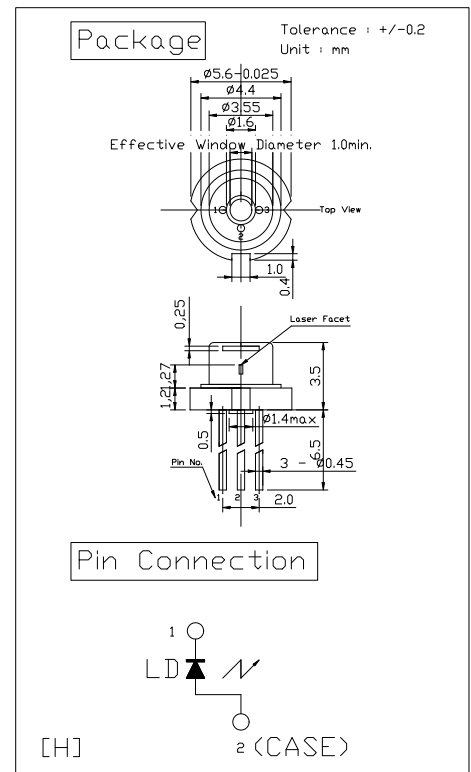
LJ850300H4T 850nm 500mW 40°C Laser Diodes

■ Specifications

Wavelength: 850nm
Light Output: 500mW CW
Package Type: TO-18(Φ 5.6mm)

■ Absolute Maximum Ratings (Tc=25°C)

Parameter	Symbols	Ratings	Units
Optical Output	Po(CW)	500	mW
Reverse Voltage	Vr	2	V
Operating Temperature	Top	-10 ~ +40	°C
Storage Temperature	Tstg	-40 ~ +80	°C



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

Parameter		Symbols	Conditions	Min	Typ	Max	Units
Threshold Current		Ith	-	-	80	120	mA
Operating Current		Iop	Po=500mW	-	700	750	mA
Operating Voltage		Vop	Po=500mW	-	1.8	2.1	Volts
Slope		η	-	0.6	0.8	-	mW/mA
Efficiency			-				
Beam Divergence (FWHM)	Parallel	$\theta \parallel$	Po=500mW	9	12	15	deg
	Perpendicular	$\theta \perp$	Po=500mW	28	30	35	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		$\lambda \text{ p}$	Po=500mW	840	850	860	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.