LASER DIODE

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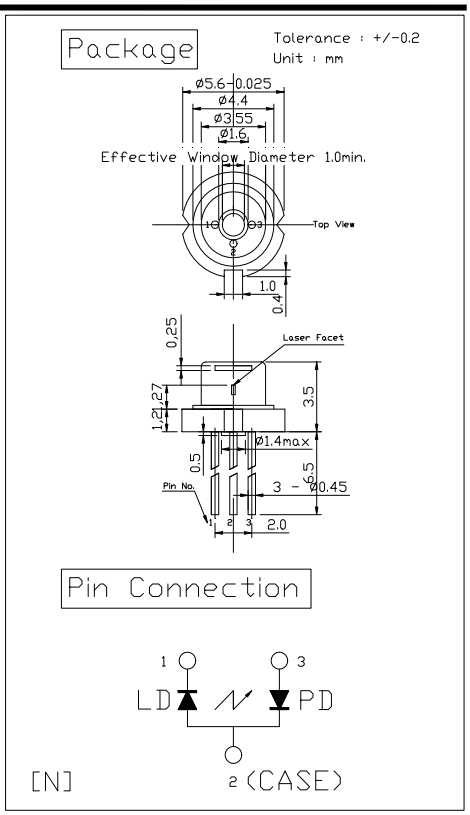
JLD8320-H5T 830nm 20mW 50℃ Laser Diodes



■Specifications

Wavelength: 830nm
Light Output: 20mW CW
Package Type: TO-18(Φ5.6mm)

■Absolute Maximum Ratings (Tc=25℃)

Parameter		Symbols	Ratings	Units
Optical Output		Po(CW)	20	mW
Reverse Voltage	Laser	Vr	2	V
Operating Temperature		Top	-10 ~ +50	℃
Storage Temperature		Tstg	-40 ~ +80	℃

■Electrical and optical Characteristics(Tc=25℃)

Parameter		Symbols	Conditions	Min	Typ	Max	Units
Threshold Current		Ith	-	-	25	35	mA
Operating Current		Iop	Po=20mW	-	55	65	mA
Operating Voltage		Vop	Po=20mW	-	1.9	2.1	Volts
Slope Efficiency		η	- / -	0.5	0.8	-	mW/mA
Beam Divergence (FWHM)	Parallel	θ ‖	Po=20mW	8	12	14	deg
	Perpendicular	θ ⊥	Po=20mW	30	35	40	deg
Parallel Deviation Angle		△θ ‖	Po=20mW	-3	-	3	deg
Perpendicular Deviation Angle		△θ ⊥	Po=20mW	-3	-	3	deg
Emission Point Accuracy		△X,△Y,△Z	Po=20mW	-80	-	80	um
Lasing Wavelength		λp	Po=20mW	820	830	840	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.