

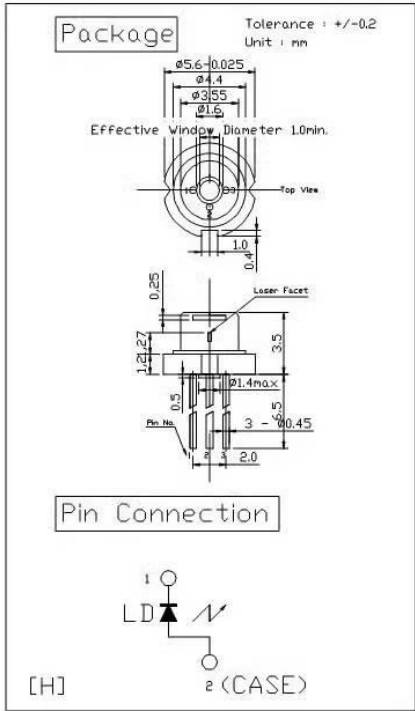
635nm 20mW 50℃ Laser Diodes

■ Specifications

Wavelength: 635nm
Light Output: 20mW CW
Package Type: TO-18(Φ 5.6mm)

■ Absolute Maximum Ratings (Tc=25℃)

Parameter		Symbols	Ratings	Units
Optical Output		Po(CW)	25	mW
Reverse Voltage	Laser	Vr	2	V
	PIN PD	Vr (PIN)	30	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	-	mA
Operating Current		Iop	Po=20mW	-	45	55	mA
Operating Voltage		Vop	Po=20mW	-	2.3	-	Volts
Slope Efficiency		η	-	-	1.2	-	mW/mA
Beam Divergence (FWHM)	Parallel	θ ∥	Po=20mW	6	8	10	deg
	Perpendicular	θ ⊥	Po=20mW	24	32	38	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		λ p	Po=20mW	630	635	640	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.