

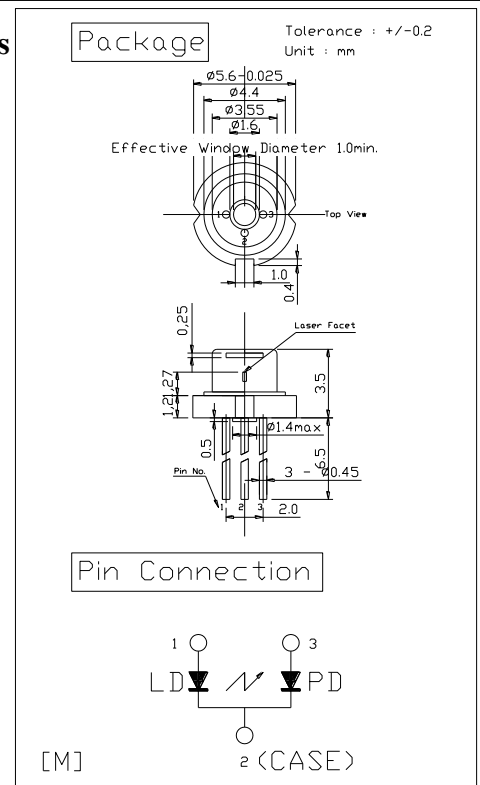
# HLD795035M7J 795nm 35mW 70°C Laser Diodes

## ■ Specifications

Wavelength: 795nm  
 Light Output: 35mW CW  
 Package Type: TO-18(Φ 5.6mm)

## ■ Absolute Maximum Ratings (Tc=25°C)

Parameter	Symbols	Ratings	Units
Optical Output	Po(CW)	40	mW
Reverse Voltage	Laser	Vr	2 V
	PIN PD	Vr (PIN)	15 V
Operating Temperature	Top	-10 ~ +70	°C
Storage Temperature	Tstg	-40 ~ +80	°C



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

Parameter	Symbols	Conditions	Min	Typ	Max	Units	
Threshold Current	Ith	-	10	20	40	mA	
Operating Current	Iop	Po=35mW	35	55	70	mA	
Operating Voltage	Vop	Po=35mW	-	2.0	2.5	Volts	
Differential efficiency	η	-	0.7	1.0	1.3	mW/mA	
Monitor Current	Im	Po=35mW	-	0.1	-	mA	
Beam Divergence (FWHM)	Parallel	θ	Po=35mW	7	9	12	deg
	Perpendicular	θ ⊥	Po=35mW	20	24	28	deg
Parallel Deviation Angle	Δθ	Po=35mW	-3	-	3	deg	
Perpendicular Deviation Angle	Δθ ⊥	Po=35mW	-3	-	3	deg	
Emission Point Accuracy	ΔX, ΔY, ΔZ	Po=35mW	-80	-	80	um	
Lasing Wavelength	λ p	Po=35mW	785	795	800	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.