

Red LD : HL63283HD Specifications (2) Under Development

Optical and Electrical Characteristics (Tc=25°C,CW)

Items	Symbols	Unit	HL63283HD			Test conditions	Note	
			Min.	Ave.	Max.			
Threshold current	I _{th}	mA	-	300	-	-		
Operating current	I _{op}	mA	-	1500	-	P _o =1.2W		
Operating voltage	V _{op}	V	-	2.4	-	P _o =1.2W		
Lasing wavelength	λ _p	nm	-	638	-	P _o =1.2W		
Beam Divergence	parallel	θ//	°	-	10	-	P _o =1.2W, FWHM	
	Perpendicular	θ⊥	°	-	35	-	P _o =1.2W, FWHM	

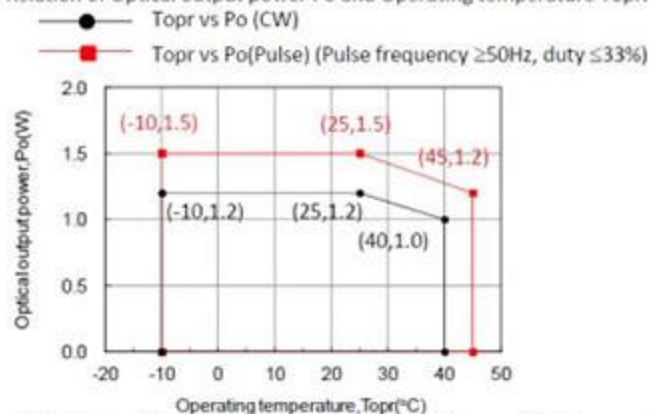
Red LD : HL63283HD Specifications (1) Under Development

Absolute Maximum Ratings (Tc=25°C)

Items	Symbols	Unit	Ratings	Note
Optical output power	P _o	W	1.2	CW, Note 2
Pulse optical output power	P _o (Pulse)	W	1.5	Pulse frequency ≥50Hz, duty ≤33%, Note 2
LD reverse voltage	V _{R(LD)}	V	2	
Operating temperature	T _{opr}	°C	-10 to 40	Note 1, Note 2
Pulse Operating temperature	T _{opr} (Pulse)	°C	-10 to 45	Note 1, Note 2
Storage temperature	T _{stg}	°C	-40 to 85	

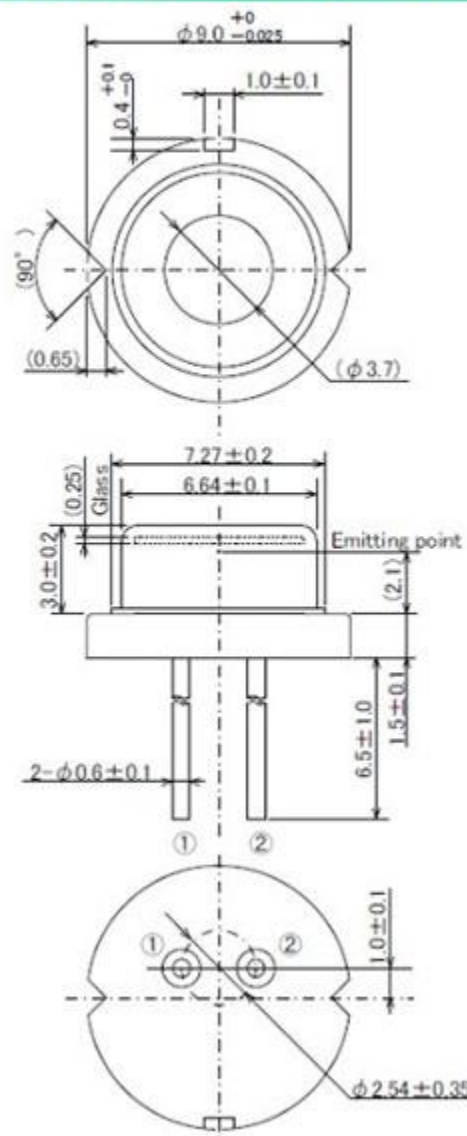
Note1) Operating temperature "T_{opr}" is defined by Case temperature "T_c".

Note2) Relation of Optical output power P_o and Operating temperature T_{opr}.

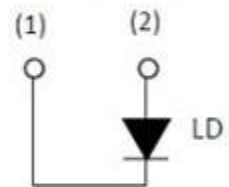


This is a preliminary target specification. The specification may be changed without any notice.

d LD : HL63283HD Outline and Internal Circuit



Internal circuit



Unit: mm

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