



LD-450-5000-M



Absolute Maximum Ratings

$T_{case}=25\text{ }^{\circ}\text{C}$

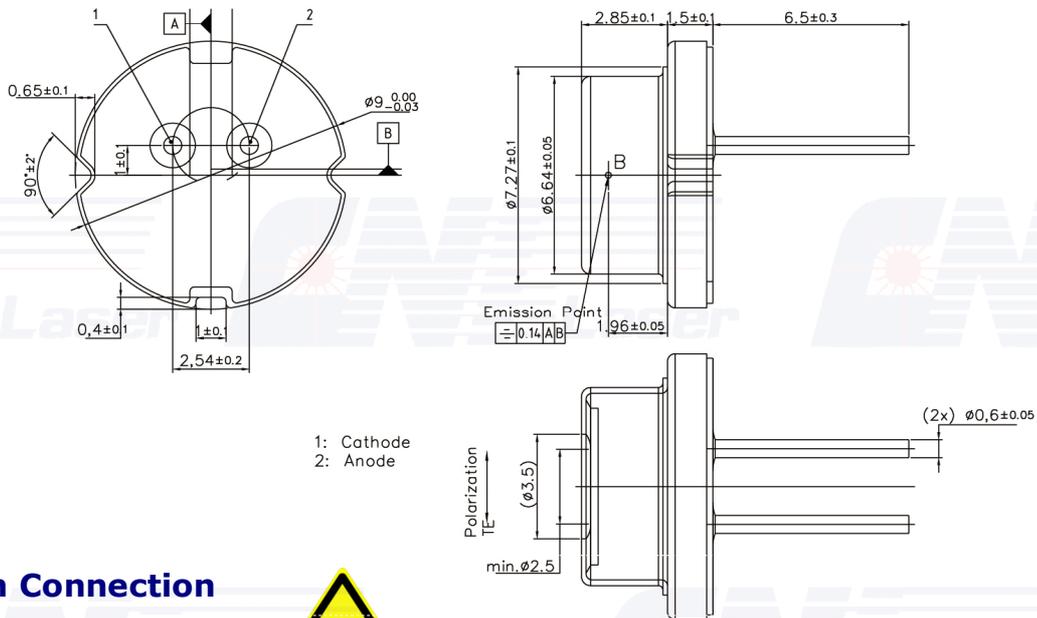
Parameter	Symbol	Value	Unit
Operating current	I_{OP}	3.8	A
Reverse current	I_R	20	mA
Operating temperature	T_{case}	-20~+90	$^{\circ}\text{C}$
Storage temperature	T_{stg}	-40~+100	$^{\circ}\text{C}$
Lead Soldering Temperature (<10 sec.)	T_{is}	260	$^{\circ}\text{C}$

Initial Electrical/Optical Characteristics

$T_{case}=25\text{ }^{\circ}\text{C}$

Item	Symbol	Condition	Min.	Typ.	Max.	Unit	
Optical output power	P_O	$I_F=3.5\text{A}$	-	5	-	W	
Threshold current	I_{th}	CW	0.29	-	0.45	mA	
Operating voltage	V_{op}	$I_F=3.5\text{A}$	-	4.3	5.0	V	
Operating wavelength	λ_{peak}	$I_F=3.5\text{A}$	440	450	455	nm	
Beam divergence (FWHM)	Parallel	Q_{\parallel}	$I_F=3.5\text{A}$	6	9	13	$^{\circ}$
	Perpendicular	Q_{\perp}	$I_F=3.5\text{A}$	41	49	57	$^{\circ}$
Polarization			TE				

Outline Dimensions



Pin Connection

PIN1	Cathode
PIN2	Anode



* Measuring specifications.

All figures in this specification are measured by CNI's method and may contain measurement deviations.

The above specifications are for reference purpose only and subjected to change without prior notice.