

450nm, 50mw, TO38 package

Application :

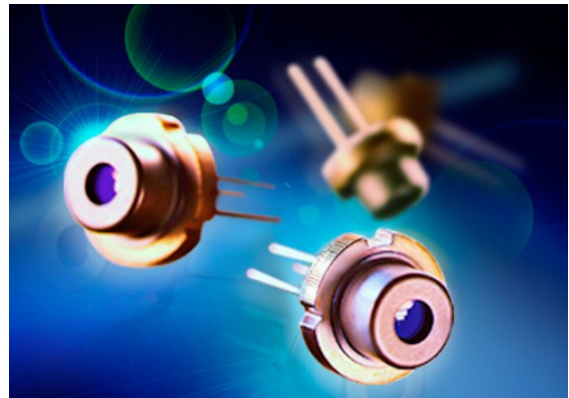
Industrial use / Biomedical / Laser projection

Property :

Wavelength Range = 450nm

Introduction :

Typical emission wavelength at 450nm and it is a efficient radiation source for cw and pulsed operation.



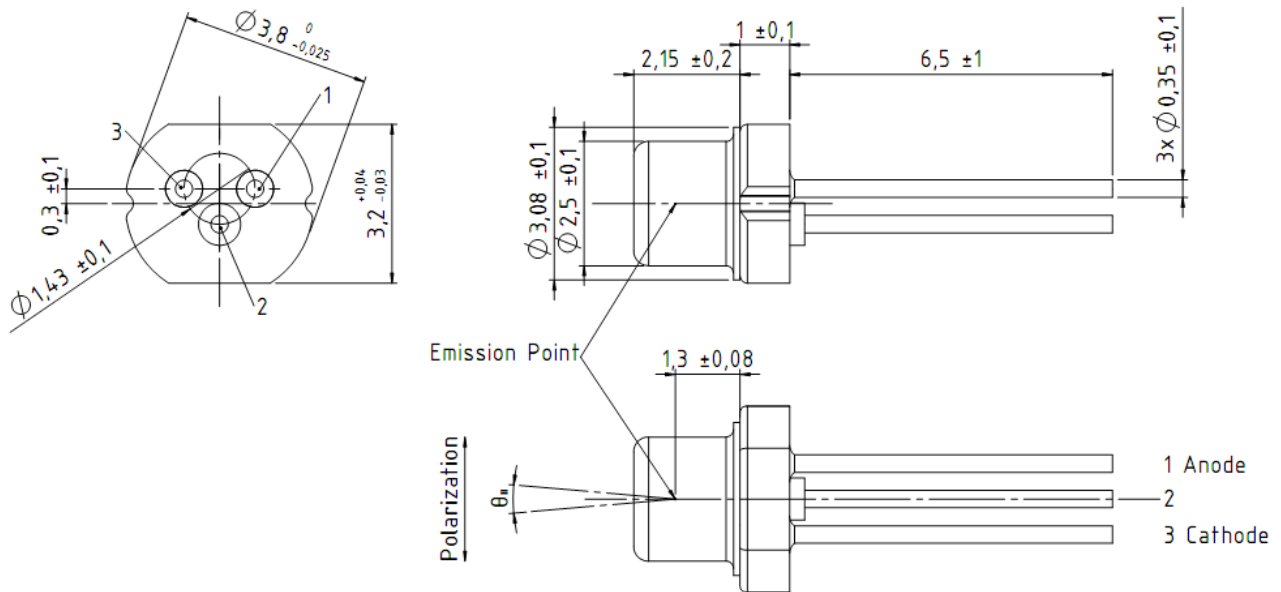
Laser Characteristics (T=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
Emission Wavelength	λ_p	440	450	460	nm	Po=50mW
Optical Output power	Po	-	50	-	mW	-
Threshold Current	Ith	-	30	60	mA	-
Operating Current	Iop	-	80	120	mA	Po=50mW
Operating Voltage	Vop	-	5.5	6.5	V	Po=50mW
Beam Divergence	$\Theta_{//}$	4	7	15	deg	Po=50mW
	Θ_{\perp}	15	21	25	deg	Po=50mW

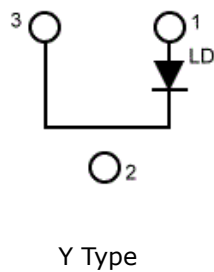
Maximum Rating

Parameter	Symbol	Value	Unit
Reverse Voltage	V	2	V
Operating Temperature	To	10~+70	°C
Storage Temperature	Ts	-40~+85	°C

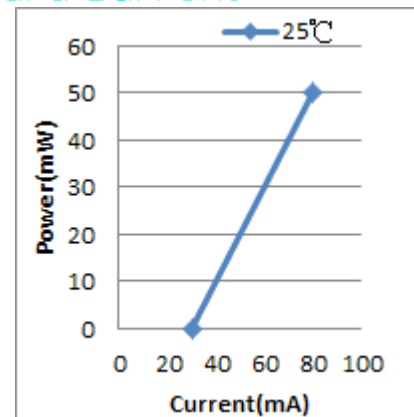
Package Outlines :



Package Connection :



Optical Output Power vs Forward Current



Caution :

- The forward voltage to drive the optical output power of an LD fluctuates with temperature. High temperature compromises optical efficiency of an LD and thus results in even more operating current to support constant output optical power.
- The reliability of LDs is influenced by Static electricity or electrical surges. Wrist strap or anti-electrostatic glove are recommended to use when picking up LDs.

Certification :

