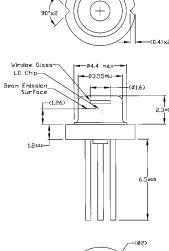
## 660nm 30mW 50°C Reliable High Power Operation

## Features

- 1. Low operating current
- 2. High efficiency
- 3. High precision package
- 4. High power operation

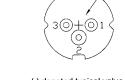
## Applications

- 1. Laser pointers
- 2. Industrial laser markers / measuring instruments
- 3. High visibility applications



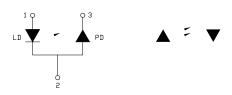


() denoted typical value



Absolute maximum ratings

Symbol	Condition	Rating	Unit
$P_{O}$	CW	32	mW
$V_{RL}$	-	2	V
$V_{RD}$	-	30	V
$I_{FD}$	-	10	mA
T <sub>C</sub>	-	-10~+50	°C
Ts	-	-40~+75	°C
	P <sub>O</sub> V <sub>RL</sub> V <sub>RD</sub>	V <sub>RL</sub>	Po         CW         32           V <sub>RL</sub> -         2           V <sub>RD</sub> -         30           I <sub>FD</sub> -         10           T <sub>C</sub> -         -10~+50



•Electrical and optical characteristics (T<sub>c</sub>=25 °C)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Peak wavelength		655	660	668	nm	P <sub>o</sub> =30mW
Threshold current	l <sub>th</sub>	-	45	55	mA	
Operating current	l <sub>op</sub>	-	85	90	mA	P <sub>o</sub> =30mW
Operating voltage	$V_{op}$	-	2.4	2.6	V	P <sub>o</sub> =30mW
Differential efficiency		0.3	0.7	-	mW/mA	P <sub>o</sub> =25~30mW
Monitor current	l <sub>m</sub>	-	0.3	-	mA	P <sub>o</sub> =30mW, V <sub>RD</sub> =5V
Parallel divergence angle	//	-	8.5	-	deg	
Perpendicular divergence angle		-	22	-	deg	
Parallel FFP deviation angle	//	-	-	±2	deg	P <sub>o</sub> =30mW
Perpendicular FFP deviation angle		-	-	±2	deg	
Emission point accuracy	хуг	-	-	±80	um	

- The Caution.
   Do not operate the device above the maximum rating condition, even momentarily. It may cause unexpected permanent damage to the device.
   Semiconductor laser device is very sensitive to electrostatic discharge. High voltage spike current may change the characteristics of the device, or malfunction at any time during its service period. Therefore, proper measures for preventing electrostatic discharge are strongly recommended.
   Effective heat sink can help the device operates under a more relax condition; as a result, a more stable characteristics and better reliability can be achieved.
   So it is
- recommended that always apply proper heat sink before the device is operating.

  4. Do not look into the laser beam directly by bare eyes. The laser beam may cause severe damage to human eyes.

