

685nm 50mW Single Mode Laser Diode| Built-in Photodiode

680nm~685nm 5.6mm Package| 50mW| SM LD |Red Laser Diode with PD

WSLD-685-050m-1-PD

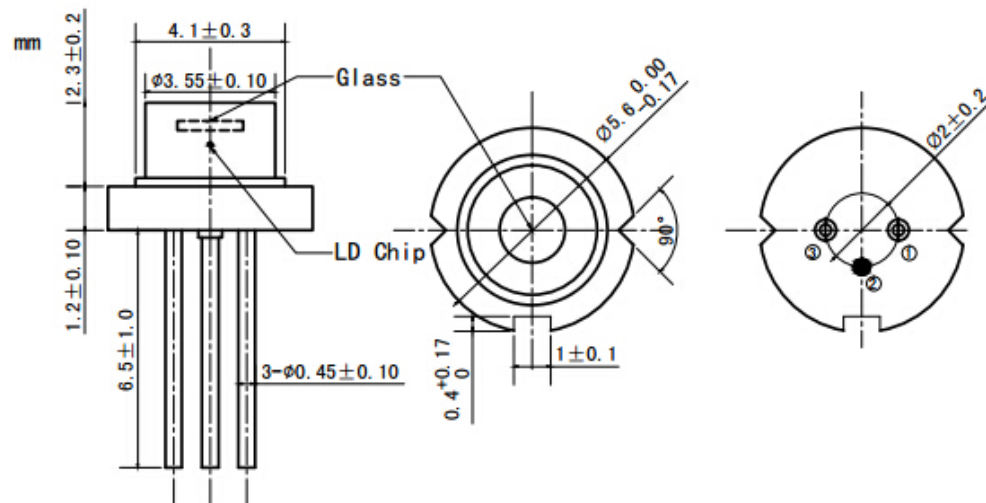
Wavespectrum Laser Group

www.wavespectrum-laser.com

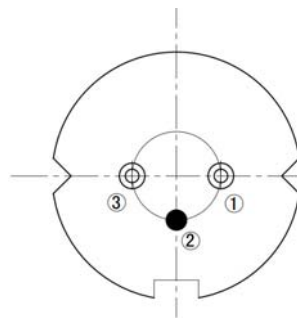
685nm Laser Diode		50mW/TO18	Wavespectrum Laser Group	
PARAMETER	SYMBOL	VALUE		UNIT
Reverse Voltage	V _r	2.0		V
Operating Temperature	T _{op}	-10 ~ +60		°C
Storage Temperature	T _{stg}	-40 ~ +85		°C
Lead soldering temperature (10 sec.)	T _{is}	260		°C
Features:				
685nm - Single Mode LD - TO18 Package - Built-in PD				
Applications:				
- Medical Laser Treatment - Laser Indicator - Others				
Specifications		WSLD-685-050m-1-PD		
		Min	Type	Max
Center Wavelength@25℃		670nm	685nm	700nm
Spectral Width (FWHM)		2.0nm		
Output Power (CW)		----	50mW	----
Recommended Operating Temp.		25℃		
Beam Divergence (FWHM)		----	20°⊥ x 10.5°//	25°⊥ x 14°//
Monitor Current			0.3mA	2.5mA
Slope Efficiency		----	0.85mW / mA	1.3mW / mA
Threshold Current (Typ.)		----	35mA	60mA
Operating Current (Typ.)		----	100mA	120mA
Operating Voltage		----	2.7V	3.0V
Package Style		TO18 (5.6mm)		



TO18(5.6mm) Package View



PIN Bottom View:



1	LD(-)
2	LD(+) & PD(-)
3	PD(+)

Electrically shorten LD module and store in non-extreme conditions.
Suggest using the constant current power supply.

