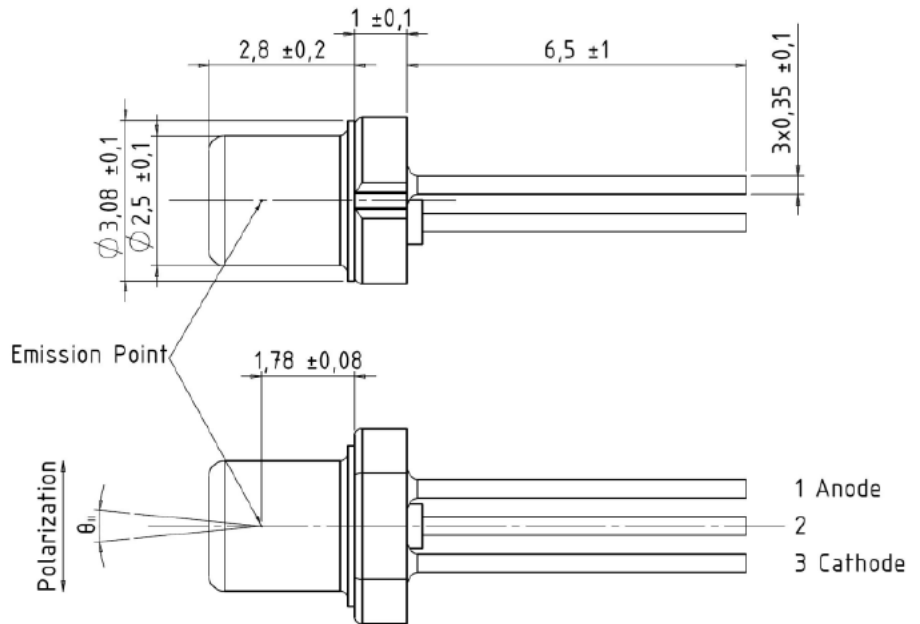
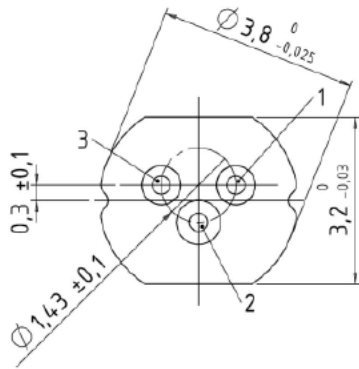


**445nm~450nm 50mw Laser Diode| Single mode LD**  
**450nm SM LD| 50mw Power|3.8mm Package**  
**RWLD-445-050m-1**

445nm Laser Diode 50mw			
PARAMETER	SYMBOL	VALUE	UNIT
Reverse Voltage	$V_r$	2.0	V
Operating Temperature	$T_{op}$	10 ~ +70	°C
Storage Temperature	$T_{stg}$	-40 ~ +85	°C
Lead soldering temperature (10 sec.)	$T_{is}$	260	°C
<b>Features:</b> <ul style="list-style-type: none"> <li>• 445nm</li> <li>• 50mW</li> <li>• Single Mode Beam</li> <li>• 3.8mm package</li> </ul>			
<b>Applications:</b> <ul style="list-style-type: none"> <li>• Medical laser treatment</li> <li>• Laser indicator</li> <li>• Laser detector</li> </ul>			
<b>Specifications</b>	<b>RWLD-445-050m-1</b>		
	<b>Min</b>	<b>Type</b>	<b>Max</b>
Center Wavelength@25°C	440nm	445nm	460nm
Spectral Width (FWHM)	2.0nm		
Output Power	----	50mW	80mW
Emitter	Single		
Beam Divergence (FWHM)	$15^\circ \pm x 4^\circ //$	$21^\circ \pm x 7^\circ //$	$25^\circ \pm x 15^\circ //$
Monitor Current	----		
Slope Efficiency	0.85mW/mA	0.9mW/mA	1.2mW/mA
Threshold Current (Typ.)	----	30mA	60mA
Operating Current (Typ.)	----	80mA	120mA
Operating Voltage	----	5.5V	6.5V
Package Style	3.8mm		

**PIN Bottom View:**



1	LD(+)
2	GND
3	LD(-)

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

