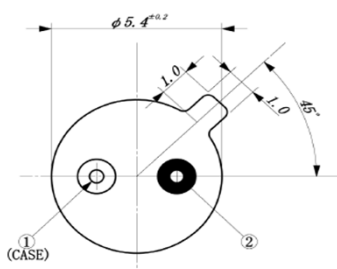
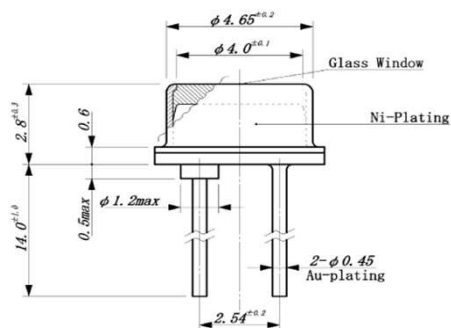


### Peak Emission Wavelength: 1650nm



1- cathode, 2 -anode, all dimensions in mm,  
tolerance:  $\pm 0.2$

#### Description

- TO-46 with flat glass lens cap
- Type: InGaAs/InP, MQW
- High power
- High speed
- Wide beam angle
- High reliability

#### Application

- Optical switches
- Optical communication
- Safety equipment
- Automation
- Applications requiring high output and precise optical / mechanical axis alignment.

### Absolute Maximum Ratings ( $T_a=25^\circ\text{C}$ )



ITEMS	TEST CONDITIONS	SYMBOL	RATINGS	UNIT
Forward DC Current		$I_f$	100	mA
Peak Forward Current (pulse)	$t \leq 10\mu\text{s}, T=10\text{ms}$	$I_{fp}$	200	mA
Reverse Voltage	$I_r=100\mu\text{A}$	$V_r$	5	V
Power Dissipation		$P_d$	100	mW
Operating Temperature Range		$T_{op}$	-25 to +85	$^\circ\text{C}$
Storage Temperature Range		$T_{st}$	-30 to +100	$^\circ\text{C}$
Lead Soldering Temperature	$t < 5\text{sec}, 3\text{mm from case}$	$T_{slg}$	260	$^\circ\text{C}$
Junction Temperature		$T_j$	100	$^\circ\text{C}$

**Electrical & Optical Characteristics (Ta = 25°C)**

ITEMS	SYMBOL	CONDITIONS	MIN	TYP	MAX	UNIT
Forward Voltage	Vf	If=20mA	--	0.7	0.95	V
Reverse Current	Ir	Vr=5V	--	100	--	uA
<b>Radiant Power</b>	$\Phi_e$	If=20mA	1.1	1.5	--	<b>mW</b>
Peak Wavelength	$\lambda_p$	If=20mA	1610	1650	1690	nm
Spectral Bandwidth at 50%	$\Delta\lambda_{0.5}$	If=50mA	--	100	--	<b>nm</b>
Viewing Angle	$\varphi$	If=50mA	--	+/-45	--	deg