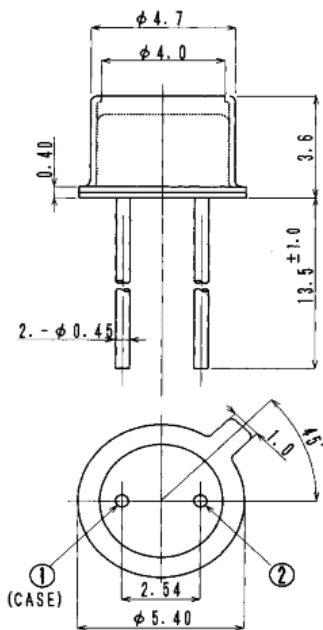


Peak Emission Wavelength: 1550nm



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 ( $T_a=25^\circ\text{C}$ )

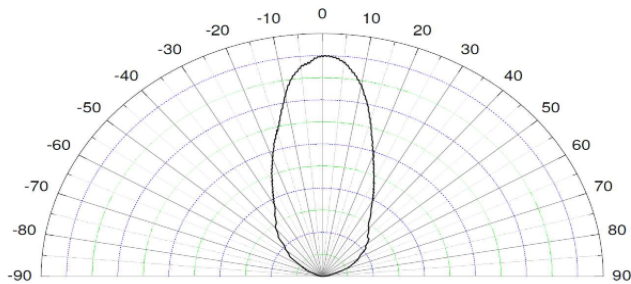


ITEMS	TEST CONDITIONS	SYMBOL	RATINGS	UNIT
Forward DC Current		If	100	mA
Peak Forward Current (pulse)	pulse width=10us, duty=1%	Ifp	1000	mA
Reverse Voltage	$I_r=100\mu\text{A}$	Vr	5	V
Power Dissipation		Pd	100	mW
Operating Temperature Range		Top	-25 to +85	$^\circ\text{C}$
Storage Temperature Range		Tst	-25 to +85	$^\circ\text{C}$
Lead Soldering Temperature	$t < 5\text{sec}$ , 3mm from case	Tslg	260	$^\circ\text{C}$
Junction Temperature		Tj	100	$^\circ\text{C}$

Electrical & Optical Characteristics (Ta = 25°C)

ITEMS	SYMBOL	CONDITIONS	MIN	TYP	MAX	UNIT
Forward Voltage	Vf	If=20mA	--	0.7	--	V
Forward Voltage	Vf	If=50mA	--	0.75	--	V
Forward Voltage	Vf	If=100mA	--	0.8	--	V
Reverse Current	Ir	Vr=5V	--	100	--	uA
Radiant Power	$\Phi_e$	If=20mA	--	1.45	--	mW
Radiant Power	$\Phi_e$	If=50mA	--	3	--	mW
Radiant Power	$\Phi_e$	If=100mA	--	4.5	--	mW
Peak Wavelength	$\lambda_p$	If=50mA	--	1550	--	nm
Spectral Bandwidth at 50%	$\Delta\lambda_{0.5}$	If=50mA	--	130	--	nm
Viewing Angle	$\phi$	If=50mA	--	+/-25	--	deg

Radiation Pattern



Spectral Response

