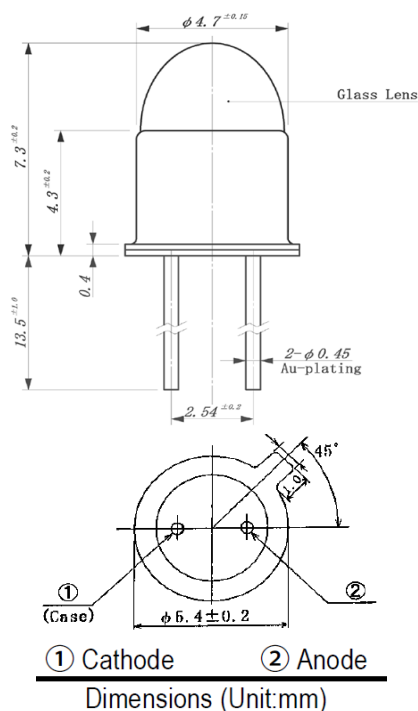


Peak Emission Wavelength: 1650nm



Description

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

Application

- Optical switches
- Optical communication
- Safety equipment
- Automation

Absolute Maximum Ratings (Ta=25°C)



ITEMS	TEST CONDITIONS	SYMBOL	RATINGS	UNIT
Forward DC Current		If	100	mA
Peak Forward Current (pulse)	$t \leq 50\mu s, T = 100\mu s$	Ifp	200	mA
Reverse Voltage	$I_r = 10\mu A$	Vr	5	V
Power Dissipation		Po	100	mW
Operating Temperature Range		Top	-20 to +85	°C
Storage Temperature Range		Tst	-30 to +100	°C
Lead Soldering Temperature	$t < 5\text{sec}, 3\text{mm from case}$	Tslg	260	°C
Junction Temperature		Tj	100	°C

Electrical & Optical Characteristics (Ta = 25°C)

ITEMS	SYMBOL	CONDITIONS	MIN	TYP	MAX	UNIT
Forward Voltage	Vf	If=20mA	--	0.7	0.95	V
Forward Voltage	Vf	If=100mA	--	0.8	1	V
Reverse Voltage	Vr	Ir=10uA	5	--	--	V
Radiant Power	Φe	If=20mA	--	1	--	mW
Radiant Power	Φe	If=100mA	--	4	--	mW
Peak Wavelength	λp	If=20mA	1610	1650	1690	nm
Spectral Bandwidth	Δλ0.5	If=20mA	--	100	--	nm
Viewing Angle	φ	If=20mA	--	6	--	deg
Switching Time	tr, tf	If=20mA	--	15	--	ns

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