OptoSupply
Light It Up

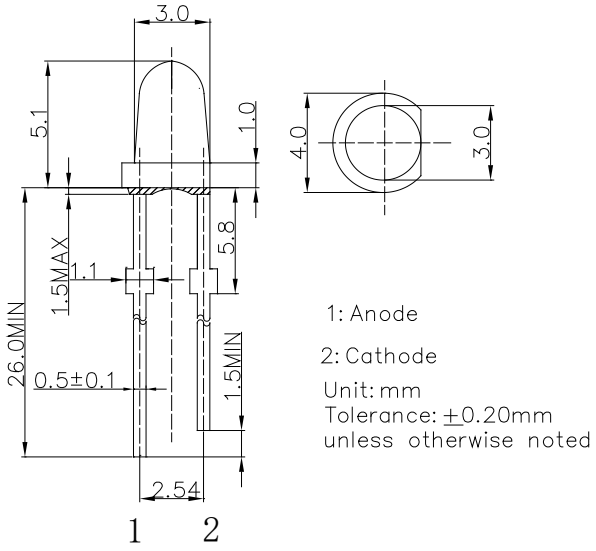
3mm Bullet Infrared LED

OSI5FU3201C

▪Features

- High Radiant Power LEDs
- 3mm Bullet Standard Directivity
- UV Resistant Epoxy
- Water Clear Type

▪Outline Dimension



▪Applications

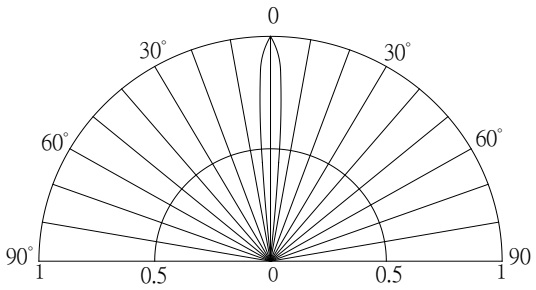
- IrDA
- Encoder
- Data Communication

▪Absolute Maximum Rating (Ta=25℃)

Item	Symbol	Value	Unit
DC Forward Current	I_F	100	mA
Pulse Forward Current#	I_{FP}	1000	mA
Reverse Voltage	V_R	5	V
Power Dissipation	P_D	160	mW
Operating Temperature	Topr	-30 ~ +85	℃
Storage Temperature	Tstg	-40~ +100	℃
Lead Soldering Temperature	Tsol	260℃/5sec	-

Pulse Width≦100us, Duty≦1/100

▪Directivity



▪Electrical –Optical Characteristics (Ta=25℃)

Item	Symbo	Condition	Min.	Typ.	Max.	Unit
DC Forward Voltage*1	V_F	I_F=50mA	-	1.3	1.6	V
DC Reverse Current	I_R	V_R=5V	-	-	10	μA
Peak Wavelength*2	λ_p	I_F=50mA	-	940	-	nm
Radiant Power*3	P_O	I_F=50mA	-	9	-	mW
Radiant Intensity*4	Ee	I_F=50mA	55	70	-	mW/Sr
50% Power Angle	$2\theta_{1/2}$	I_F=50mA	-	10	-	deg

*1 Tolerance of measurements of forward voltage is±0.1V
*2 Tolerance of measurements of peak wavelength is +1nm
*3 Tolerance of measurements of Radiant Power is ±15%
*4 Tolerance of measurements of radiant intensity is +15%