



OptoSupply

Light It Up

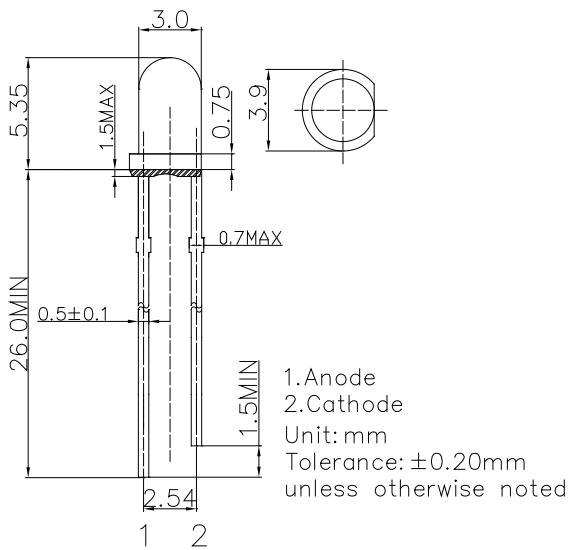
3mm Round Infrared LED

OSI5FU3A11A

■Features

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

■Outline Dimension



■Applications

- IrDA
- Encoder
- Data Communication
- IR camera

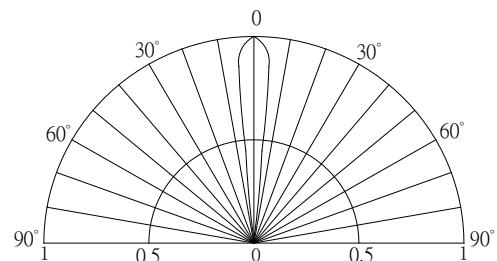
■Absolute Maximum Rating

(Ta=25°C)

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	T _{opr}	-30 ~ +85	°C
Storage Temperature	T _{stg}	-40 ~ +100	°C
Lead Soldering Temperature	T _{sol}	260°C / 5sec	-

Pulse Width $\leq 100\text{us}$, Duty $\leq 1/100$

■Directivity



■Electrical -Optical Characteristics

(Ta=25°C)

Item	Symbol	Condition	Min.	Typ.	Max.	Unit
DC Forward Voltage* ₁	V _F	I _F =50mA	-	1.35	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	Φ _e	I _F =50mA	-	9	-	mW
Radiant Intensity* ₄	I _e	I _F =50mA	25	40	-	mW/Sr
50% Power Angle	2θ _{1/2}	I _F =50mA	-	15	-	deg

*₁ Tolerance of measurements of forward voltage is $\pm 0.1\text{V}$

*₂ Tolerance of measurements of peak wavelength is $\pm 1\text{nm}$

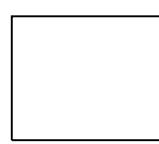
*₃ Tolerance of measurements of Radiant Power is $\pm 15\%$

*₄ Tolerance of measurements of Radiant Intensity is $\pm 15\%$

LED & Application Technologies



ISO 9001: 2008



REACH
The new EU chemicals legislation



ATTENTION
OBSERVE PRECAUTIONS
ELECTROSTATIC
SENSITIVE DEVICES