OptoSupply
Light It Up

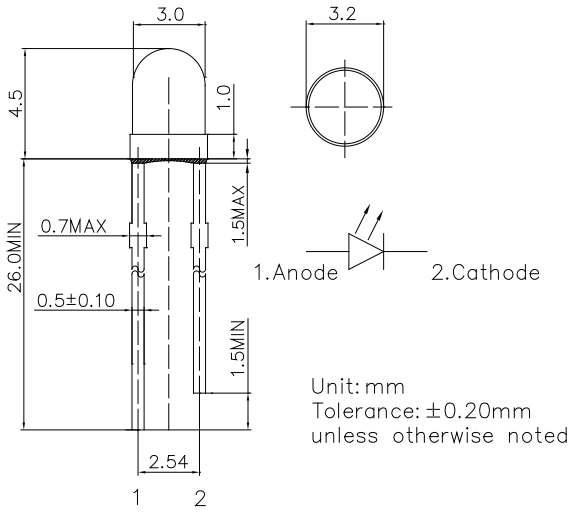
3mm Round 880nm Infrared LED

OSIXCA3C31A

▪Features

- Infrared Light Emitting Diode
- 880nm, 60mW
- Viewing Angle: 30deg
- Package: 3mm Clear Epoxy
- UV Resistant Epoxy

▪Outline Dimension



▪Applications

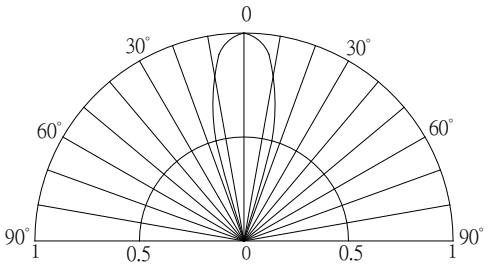
- IrDA
- Encoder
- Data Communication
- IR camera

▪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	200	mW
Operating Temperature	Topr	-30 ~ +85	℃
Storage Temperature	Tstg	-40~ +100	℃
Lead Soldering Temperature	Tsol	260℃/5sec	-

#Pulse width Max.10ms Duty ratio max 1/10

▪Directivity



▪Electrical -Optical Characteristics (Ta=25℃)

Item	Symbol	Condition	Min.	Typ.	Max.	Unit
DC Forward Voltage	V_F	I_F=100mA	-	1.6	2.0	V
DC Reverse Current	I_R	V_R=5V	-	-	10	μA
Peak Wavelength	λ_p	I_F=100mA	866	880	892	nm
Radiant Power	P_O	I_F=100mA	50	60	-	mW
Radiant Intensity	Ie	I_F=100mA	100	150	-	mW/Sr
50% Power Angle	$2\theta_{1/2}$	I_F=100mA	-	30	-	deg

*1 Tolerance of measurements of Peak wavelength is ±1nm
*2 Tolerance of measurements of Radiant Intensity is ±15%
*3 Tolerance of measurements of forward voltage is ±0.1V

LED & Application Technologies

ISO 9001: 2008

RoHS Compliant EU 2002/95/EC

REACH The new EU chemicals legislation

ATTENTION
OBSERVE PRECAUTIONS
ELECTROSTATIC
SENSITIVE DEVICES