OptoSupply
Light It Up

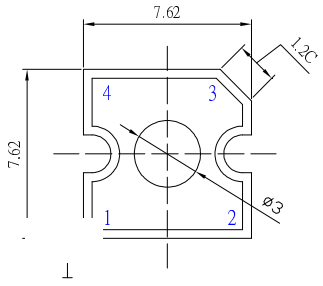
Deluxe Power Super Flux 850nm Infrared LED

OSI3NAZB11P

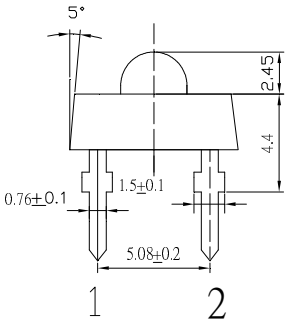
■Features

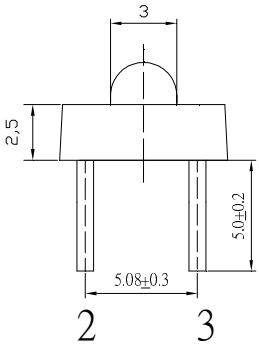
- High Radiant Power LEDs
- 3 ø Standard Directivity
- Long Lifetime Operation
- UV Resistant Epoxy
- Water Clear Type

■Outline Dimension



Unit:mm
Tolerance:±0.20mm
unless otherwise note
1,4 Cathode
2,3 Anode





■Applications

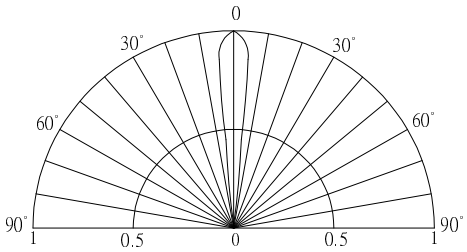
- IrDA
- Encoder
- Data Communication
- Other Lighting

■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	180	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	Symbol	Condition	Min.	Typ.	Max.	Unit
DC Forward Voltage*1	V_F	I_F=100mA	-	1.6	1.8	V
DC Reverse Current	I_R	V_R=5V	-	-	10	μA
Peak Wavelength*2	λ_p	I_F=100mA	-	850	-	nm
Radiant Power*3	Po	I_F=100mA	-	200	-	mW
Radiant Intensity*4	Ie	IF=100mA	-	75	-	mW/Sr
50% Power Angle	$2\theta_{1/2}$	I_F=100mA	-	15	-	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%