OptoSupply
Light It Up

5mm 880nm Infrared LED

OSIXCA5111A

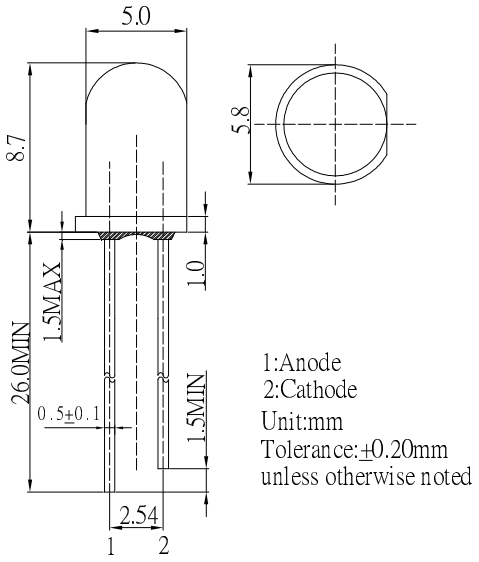
▪Features

- Infrared Light Emitting Diode
- Package: 5mm clear epoxy
- UV Resistant Epoxy

▪Applications

- IrDA
- Encoder
- Data Communication
- IR camera

▪Outline Dimension

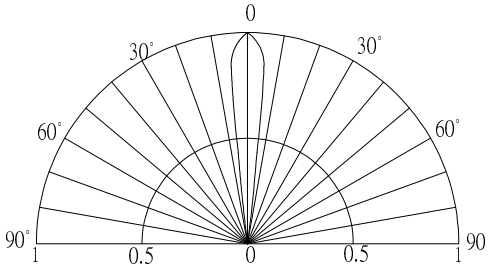


▪Absolute Maximum Rating (Ta=25℃)

Item	Symbol	Value	Unit
DC Forward Current	I_F	100	mA
Pulse Forward Current#	I_{FP}	200	mA
Reverse Voltage	V_R	5	V
Power Dissipation	P_D	190	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	1.8	V
DC Reverse Current	I_R	V_R=5V	-	-	10	μA
Peak Wavelength*	λ_p	I_F=100mA	866	880	892	nm
Radiant Intensity*	Ie	I_F=100mA	150	220	330	mW/Sr
Radiant Power*	P_O	I_F=100mA	50	60	-	mW
50% Power Angle	$2\theta_{1/2}$	I_F=100mA	-	15	-	deg

*1 Tolerance of measurements of peak wavelength is ±1nm

*2 Tolerance of measurements of radiant power/intensity is ±15%

*3 Tolerance of measurements of forward voltage is ±0.1V