

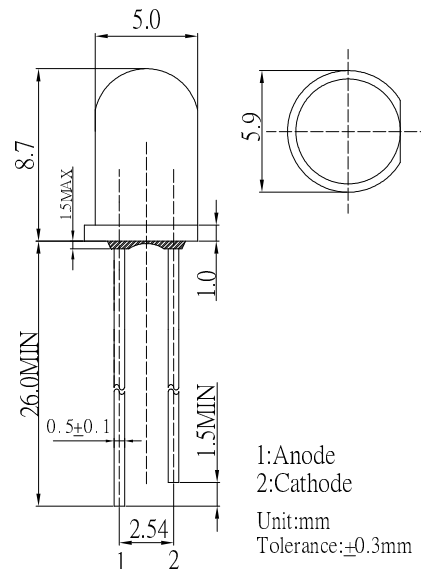
## ■Features

- Infrared Light Emitting Diode
- 880nm, 45mW
- Viewing angle: 20deg
- Package: 5mm clear epoxy
- UV Resistant Epoxy

## ■Applications

- IrDA
- Encoder
- Data Communication
- IR camera

## ■Outline Dimension



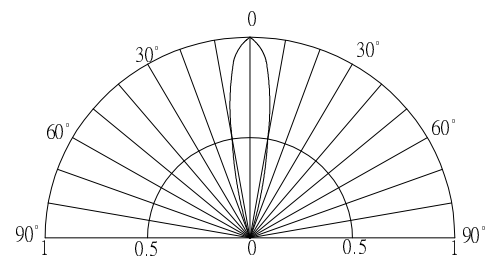
## ■Absolute Maximum Rating

(Ta=25°C)

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

\*Pulse width Max.10ms Duty ratio max 1/10

## ■Directivity



## ■Electrical -Optical Characteristics

(Ta=25°C)

Item	Symbol	Condition	Min.	Typ.	Max.	Unit
DC Forward Voltage	$V_F$	$I_F=100\text{mA}$	-	1.6	2.0	V
DC Reverse Current	$I_R$	$V_R=5\text{V}$	-	-	10	μA
Peak Wavelength	$\lambda_p$	$I_F=100\text{mA}$	886	880	892	nm
Radiant Intensity	$I_e$	$I_F=100\text{mA}$	-	45	-	mW/Sr
50% Power Angle	$2\theta_{1/2}$	$I_F=100\text{mA}$	-	20	-	deg

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

\*2 Tolerance of measurements of radiant intensity is  $\pm 15\%$

\*3 Tolerance of measurements of forward voltage is  $\pm 0.1\text{V}$