

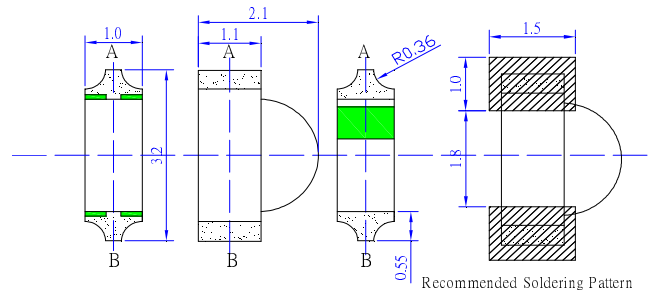
**■Features**

- Single chip
- Compact package outline  
(L x W x T) of 3.2mm x 1.0mm x2.1mm
- Compatible to IR reflow soldering.
- Water Clear Lens Type

**■Applications**

- Automatic Control System
- Photo Detector
- Computer I/O Peripheral

**■Outline Dimension**



A ← ● → B  
A: Cathode  
B: Anode

Unit:mm  
Tolerance:±0.20mm  
unless otherwise noted

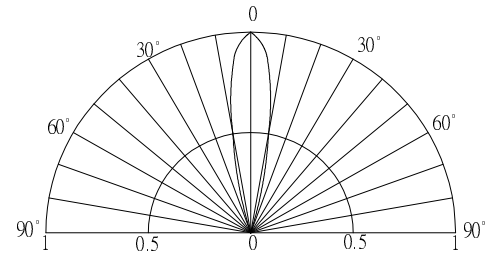
**■Absolute Maximum Rating**

(Ta=25°C)

Item	Symbol	Value	Unit
DC Forward Current	I <sub>F</sub>	100	mA
Pulse Forward Current*	I <sub>FP</sub>	300	mA
Reverse Voltage	V <sub>R</sub>	5	V
Power Dissipation	P <sub>D</sub>	130	mW
Operating Temperature	Topr	-30 ~ +85	°C
Storage Temperature	Tstg	-40~ +100	°C
Lead Soldering Temperature	Tsol	260°C/5sec	-

\*Pulse width Max 0.1ms, Duty ratio max 1/10

**■Directivity**



**■Electrical -Optical Characteristics**

(Ta=25°C)

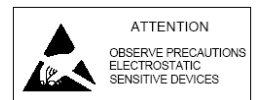
Item	Symbol	Condition	Min.	Typ.	Max.	Unit
DC Forward Voltage	V <sub>F</sub>	I <sub>F</sub> =5mA	-	1.2	1.3	V
DC Reverse Current	I <sub>R</sub>	V <sub>R</sub> =5V	-	-	10	μA
Peak Wavelength	λ <sub>p</sub>	I <sub>F</sub> =5mA	-	940	-	nm
Transmit Bandwidth	λ	I <sub>F</sub> =5mA	35	45	55	nm
Radiant Intensity	I <sub>e</sub>	I <sub>F</sub> =5mA	1	5	-	mW/Sr
50% Power Angle	2θ <sub>1/2</sub>	I <sub>F</sub> =5mA	-	20	-	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**



■ Typical Electrical/Optical/Characteristics Curves

Fig.1 Forward Current vs Ambient Temperature

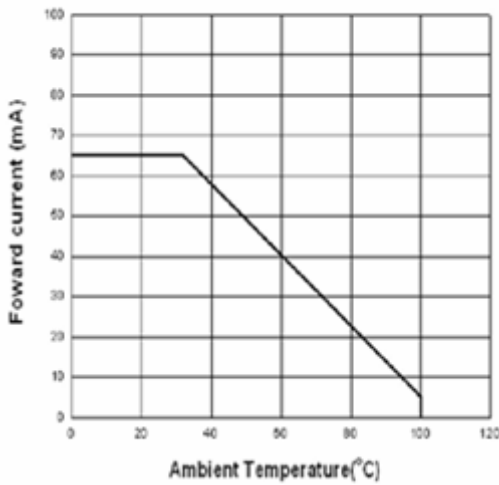


Fig.2 Spectral Sensitivity

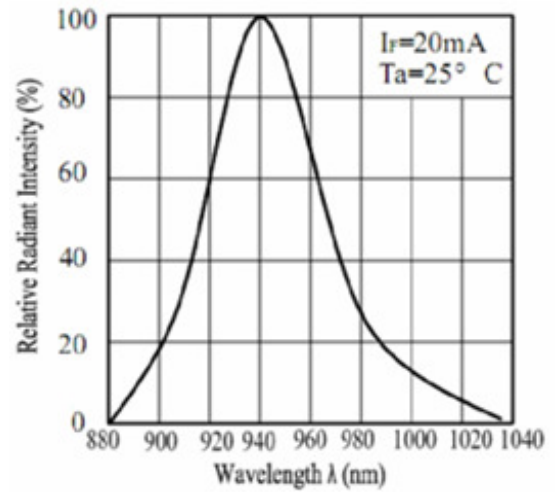


Fig.3 Relative Intensity vs. Forward Current

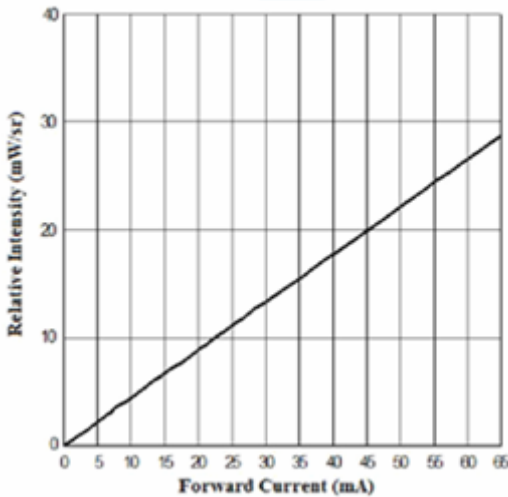


Fig.4 Forward Current vs. Forward Voltage

