

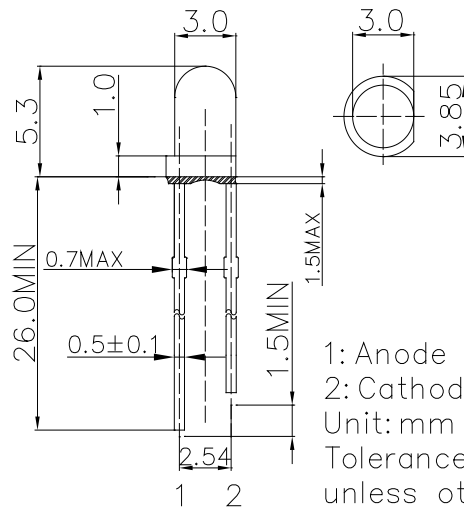
■Features

- High Radiant Power LEDs
- 3mm Round Standard Directivity
- UV Resistant Epoxy
- Water Clear Type

■Applications

- IrDA
- Encoder
- Data Communication
- IR Camera

■Outline Dimension



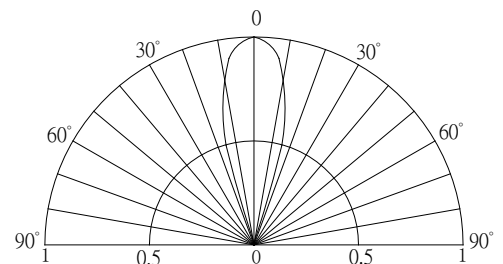
■Absolute Maximum Rating

(Ta=25°C)

Item	Symbol	Value	Unit
DC Forward Current	I_F	120	mA
Pulse Forward Current#	I_{FP}	500	mA
Reverse Voltage	V_R	5	V
Power Dissipation	P_D	264	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*1	V_F	$I_F=100\text{mA}$	-	1.7	2.2	V
DC Reverse Current	I_R	$V_R=5\text{V}$	-	-	10	μA
Peak Wavelength*2	λ_p	$I_F=100\text{mA}$	770	780	790	nm
Radiant Power*3	Φ_e	$I_F=100\text{mA}$	80	90	-	mW
Radiant Intensity*4	I_e	$I_F=100\text{mA}$	200	250	-	mW/Sr
50% Power Angle	$2\theta_{1/2}$	$I_F=100\text{mA}$	-	30	-	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%

LED & Application Technologies

