

High Power UV LED



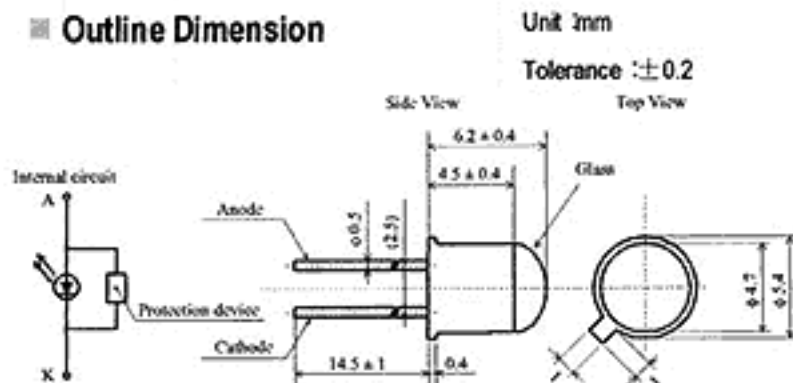
Features

- $\lambda P = 365\text{nm}$
- Narrow Directivity with Lens
- Directivity ($2\theta 1/2$) : 10°
- Pb-free Soldering Application

Applications

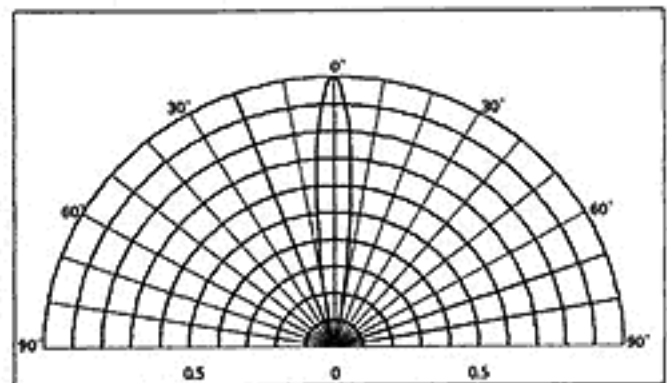
- Excitation Light Source for Phosphor Inspection Device etc

Outline Dimension



Directivity

$T_a = 25^\circ\text{C}$
 $I_f = 20\text{mA}$



Absolute Maximum Ratings *1 ($T_a = 25^\circ\text{C}$)

Item	Symbol (Unit)	Absolute Maximum Rating
Forward Current	I_f (mA)	25
Pulse Forward Current *2	I_{fP} (mA)	80
Allowable Reverse Current	I_R (mA)	85
Power Dissipation	P_D (mW)	100
Operating Temperature	T_{opr} ($^\circ\text{C}$)	$-30 \sim +85$
Storage Temperature	T_{stg} ($^\circ\text{C}$)	$-40 \sim +100$

*1 The product in this document is under development.
The values in the tables are for reference.

*2 Pulse width Max.10ms, Duty ratio Max.1/10

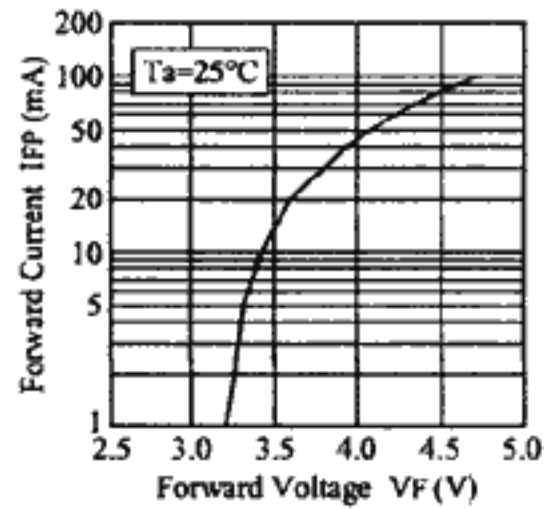
Electrical Optical Characteristics *1 ($T_a = 25^\circ\text{C}$)

Item	Condition	Symbol (Unit)	Typ.	Max.
Forward Voltage	$I_f = 20\text{mA}$	V_f (V)	3.6	4.0
Optical Power Output	$I_f = 20\text{mA}$	P_o (mW)	1.4	-
Peak Wavelength	$I_f = 20\text{mA}$	λ_p (nm)	365	-
Spectrum Half Width	$I_f = 20\text{mA}$	$\Delta \lambda$ (nm)	10	-

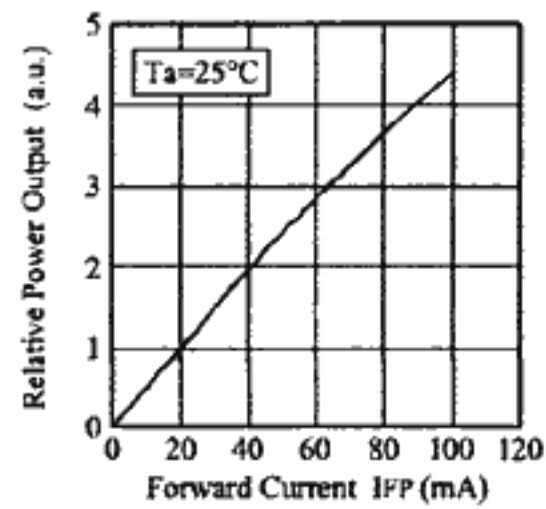
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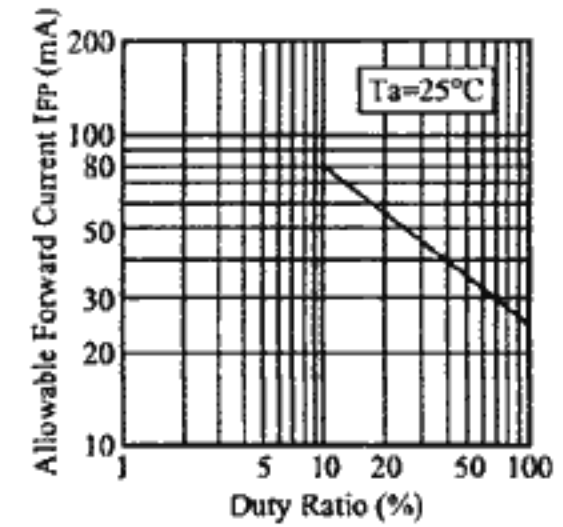
■ Forward Voltage vs. Forward Current



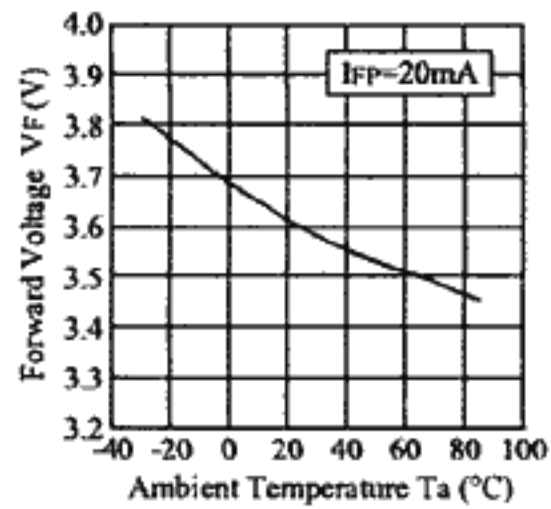
■ Forward Current vs. Relative Power Output



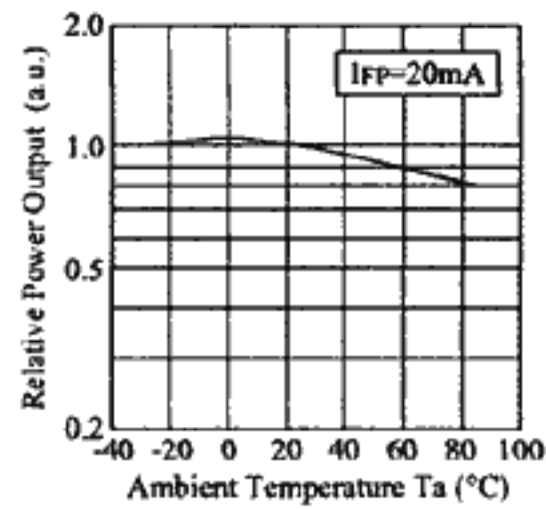
■ Duty Ratio vs. Allowable Forward Current



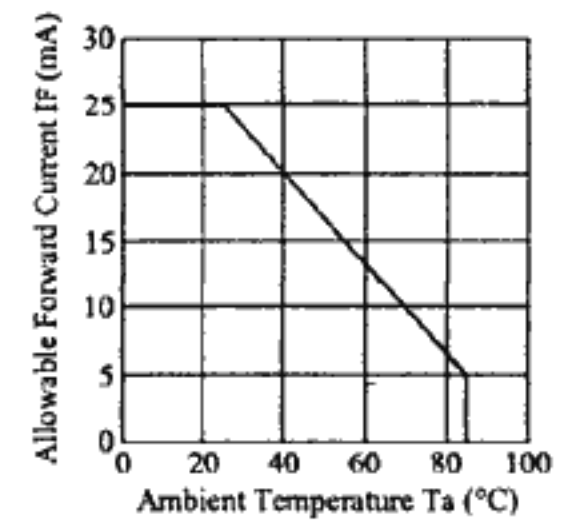
■ Ambient Temperature vs. Forward Voltage



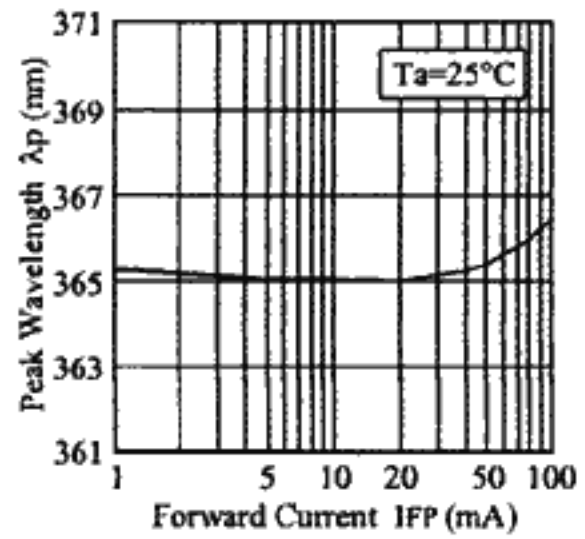
■ Ambient Temperature vs. Relative Power Output



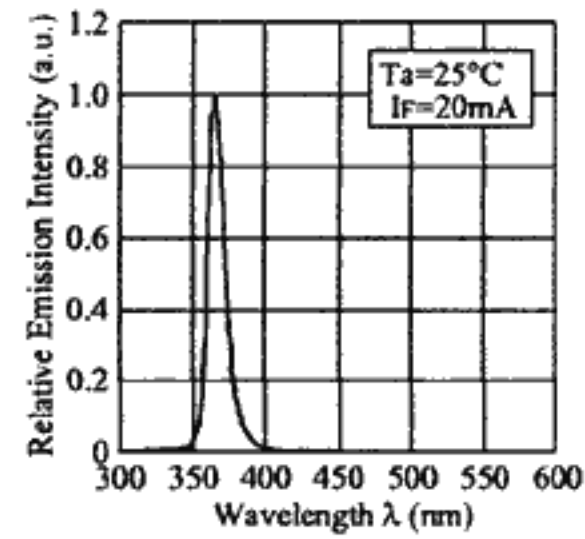
■ Ambient Temperature vs. Allowable Forward Current



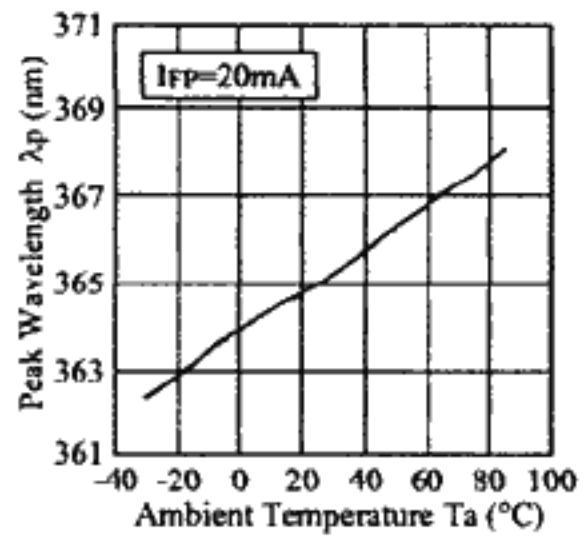
■ Forward Current vs. Peak Wavelength



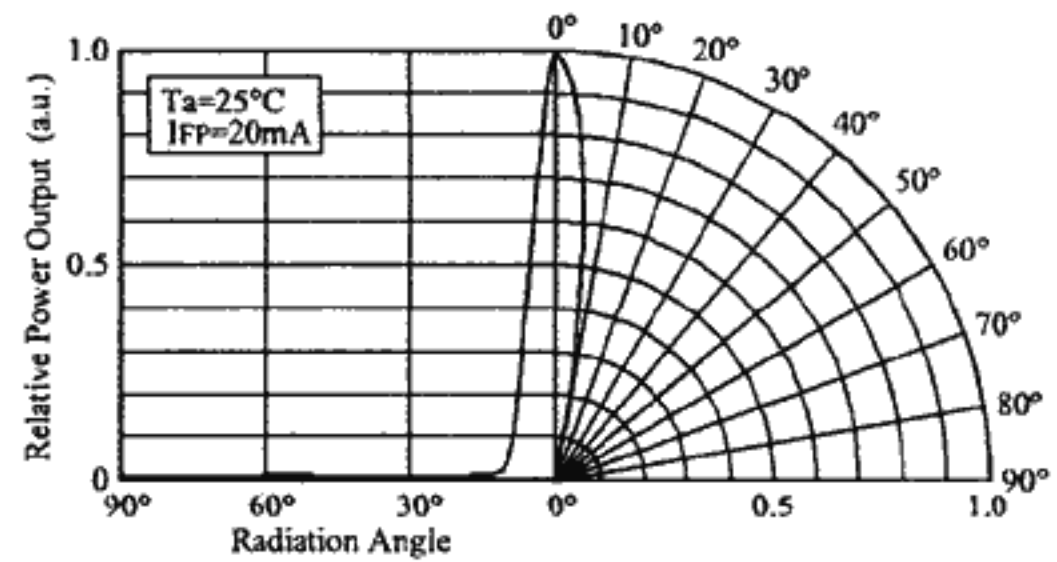
■ Spectrum

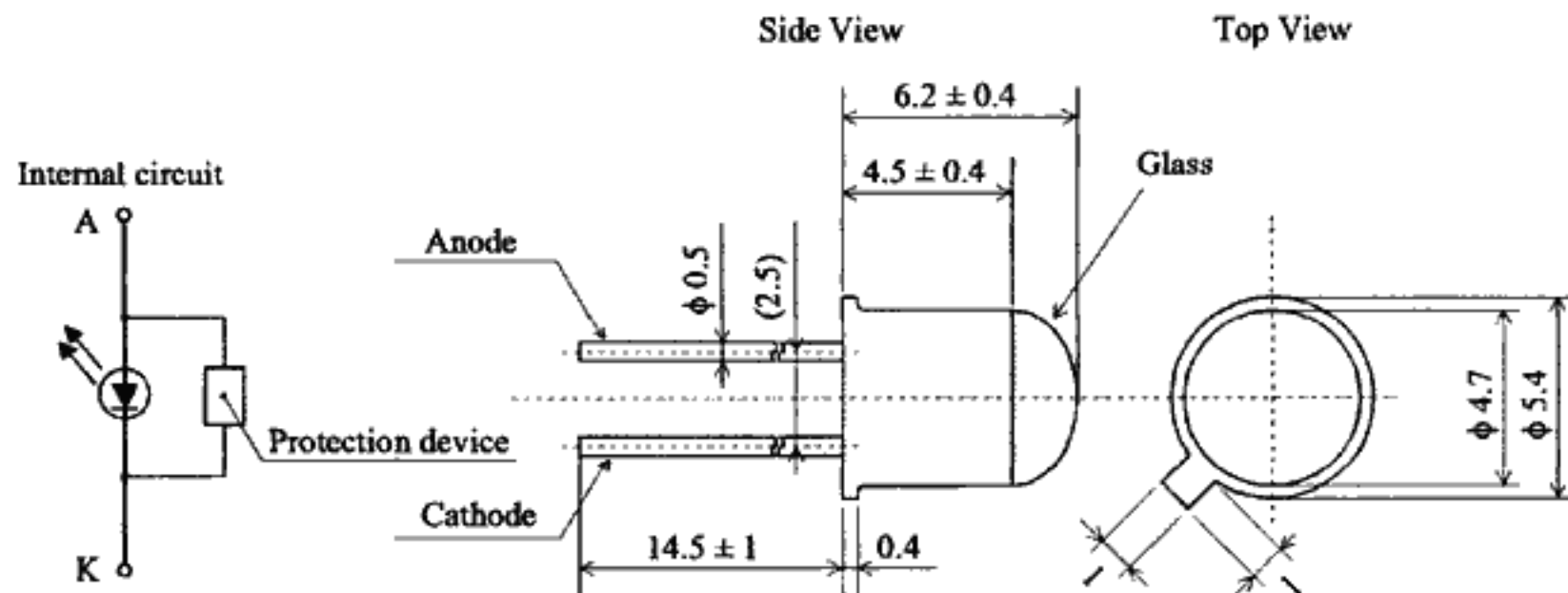


■ Ambient Temperature vs. Peak Wavelength



■ Directivity





protection device built in as a protection circuit against static electricity.

ITEM	MATERIALS
GLASS	Hard Glass
CAP	Ni Plating Iron Alloy
LEAD	Au Plating Iron Alloy