

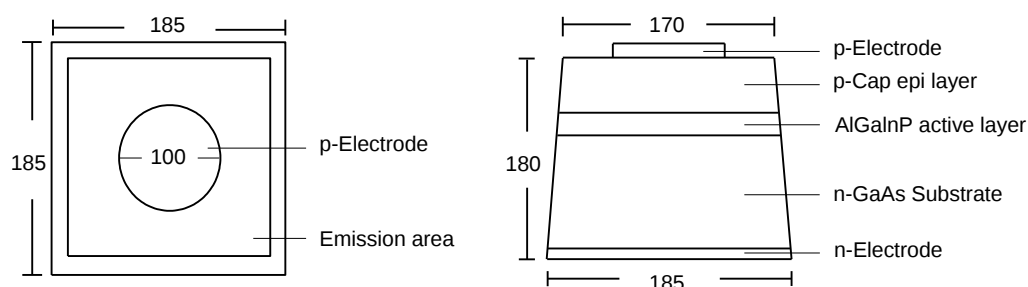
■ Features :

- MOVPE Epi Wafer
- Low Cost

■ Typical Applications :

- Dot Matrix
- Lamp Display
- High Performance X'mas Lamps

■ Outline Dimensions : (Unit: μm)



■ Physical Structure :

Chip dimension	Chip size	185 μm x 185 μm
	Thickness	180 μm
	Emission area	170 μm
	Bonding pad	100 μm
Electrode	Top: P (anode)	Aluminum (Gold optional)
	Backside: N (cathode)	Gold alloy
Surface condition	Not frosted	

■ Electro-Optical Characteristics : ($T_a = 25^\circ\text{C}$)

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Forward Voltage	V_F	$I_F = 20 \text{ mA}$	-	2.10	2.40	V
Reverse Voltage	V_R	$I_R = 10 \text{ }\mu\text{A}$	5	-	-	V
Wavelength	λ_p	$I_F = 20 \text{ mA}$	-	606	-	nm
	λ_D		601	605	611	
Spectral width at half height	$\Delta\lambda$	$I_F = 20 \text{ mA}$	-	19	-	nm
Luminous Intensity	I_v	$I_F = 20 \text{ mA}$	120	-	-	mcd
			150			

■ Typical Electro-Optical Characteristics Curve:

Fig 1. Forward Current vs. Forward Voltage

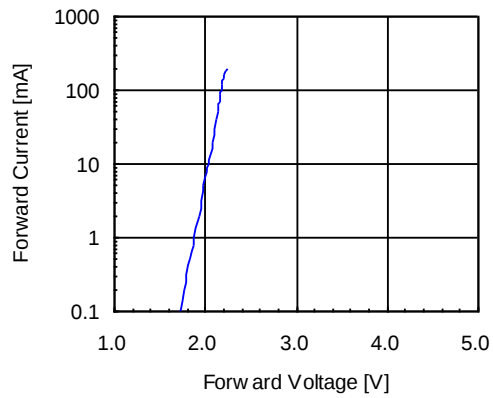


Fig 2. Relative Intensity vs. Forward Current

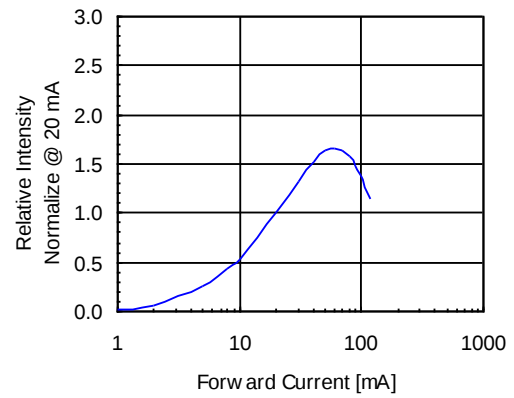


Fig 3. Forward Voltage vs. Temperature

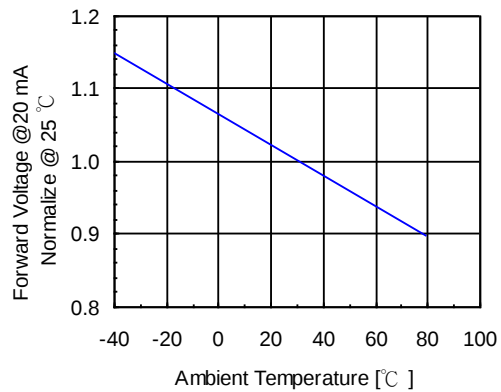


Fig 4. Relative Intensity vs. Temperature

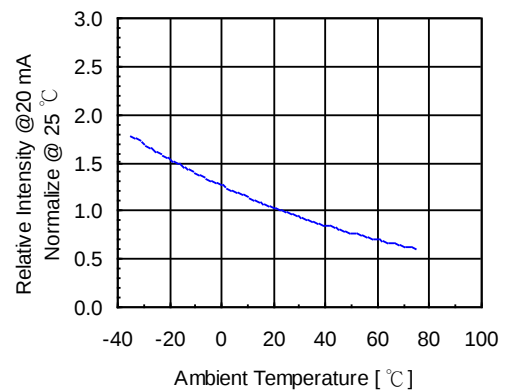


Fig 5. Relative Intensity vs. Wavelength

