

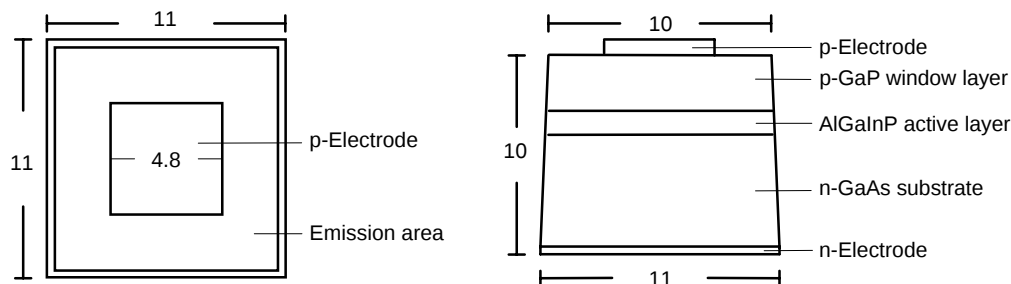
■ Features :

- HP MOVPE epi wafer
- Low VF and superior thermal stability
- High light output at four sides results high total light output and wide view angle after packaging
- High reliability

■ Typical Applications :

- Automotive Signal Lamps: Front/ Rear Turns
- Automotive Interior Lighting
- Traffic Signal Modules/ Traffic Signs
- Message Signs
- Alternative to Incandescent Lamps
- Industrial Products

■ Outline Dimensions : (Unit: mil)



■ Physical Structure :

Chip dimension	Chip size	11.0 mils x 11.0 mils
	Thickness	10.0 mils
	Emission area	10.0 mils
	Bonding pad	4.8 mils
Electrode	Top: P (anode)	Aluminum (Gold optional)
	Backside: N (cathode)	Gold alloy
Surface condition	Not frosted	

■ Electro-Optical Characteristics : (Ta = 25°C)

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Forward Voltage	V_F	$I_F = 20 \text{ mA}$	-	1.93	2.30	V
Reverse Voltage	V_R	$I_R = 10 \mu\text{A}$	5	-	-	V
Wavelength	λ_D	$I_F = 20 \text{ mA}$	-	590	-	nm
	Hue		576	586	596	
Spectral width at half height	$\Delta\lambda$	$I_F = 20 \text{ mA}$	-	18	-	nm
Luminous Intensity	I_V	B1	25	-	-	mcd
		C1	35	-	-	
		D1	45	-	-	

■ Typical Electro-Optical Characteristics Curve:

Fig 1. Forward Current vs. Forward Voltage

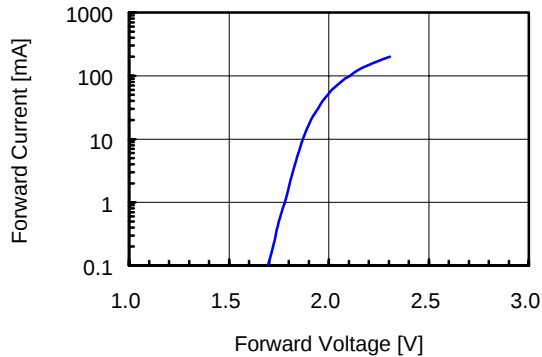


Fig 2. Relative Intensity vs. Forward Current

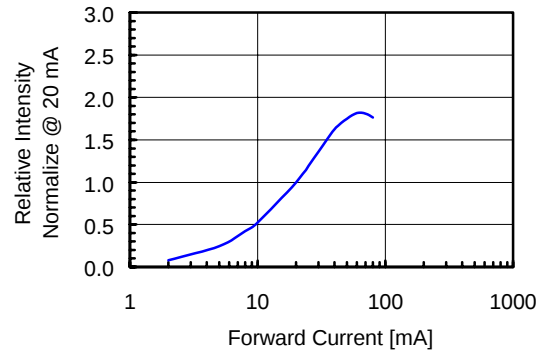


Fig 3. Forward Voltage vs. Temperature

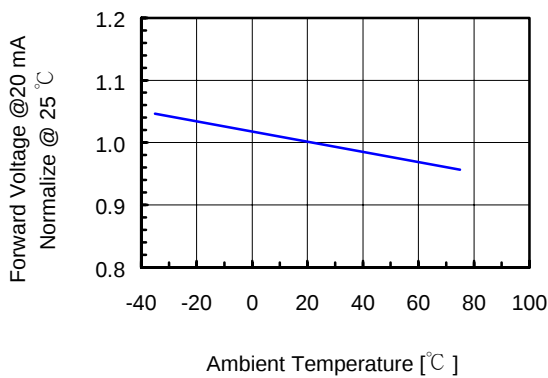


Fig 4. Relative Intensity vs. Temperature

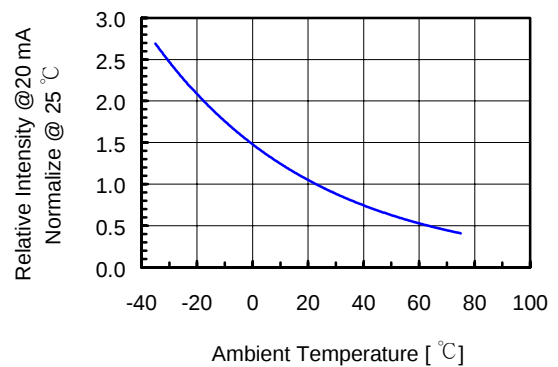
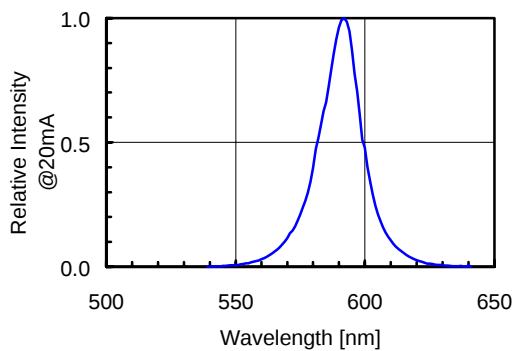


Fig 5. Relative Intensity vs. Wavelength



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