

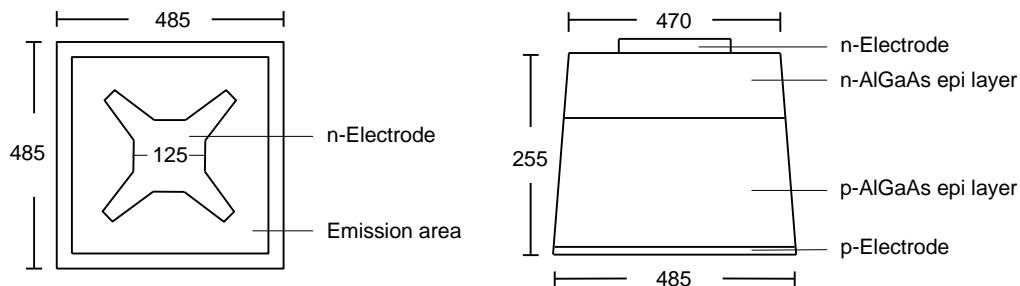
Features :

- N Side Up

Typical Applications :

- Industrial Infrared Equipment

Outline Dimensions : (Unit: μm)



Physical Structure :

Chip dimension	Chip size	485 μm x 485 μm
	Thickness	255 μm
	Emission area	470 μm
	Bonding pad	125 μm
Electrode	Top: N (cathode)	Gold (Aluminum optional)
	Backside: P (anode)	Gold alloy
Surface condition	Smooth	

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

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Forward Voltage	V_F	$I_F = 20 \text{ mA}$	-	1.28	1.40	V
		$I_F = 100 \text{ mA}$	-	1.46	-	
Reverse Voltage	V_R	$I_R = 10 \text{ uA}$	15	-	-	V
Wavelength	λ_p	$I_F = 20 \text{ mA}$	-	880	-	nm
Spectral width at half height	$\Delta\lambda$	$I_F = 20 \text{ mA}$	-	70	-	nm
Radiant Power	P_o	$I_F = 20 \text{ mA}$	0.45	0.86	-	mW

■ Typical Electro-Optical Characteristics Curve:

Fig 1. Forward Current vs. Forward Voltage

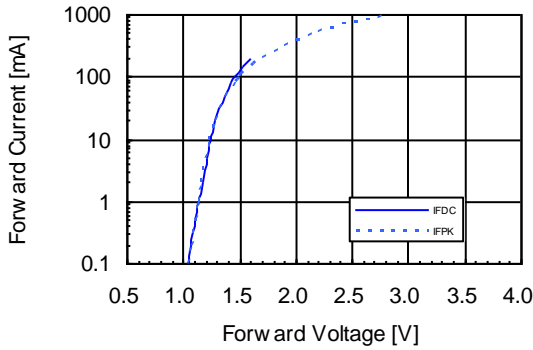


Fig 2. Relative Radiant Power vs. Wavelength

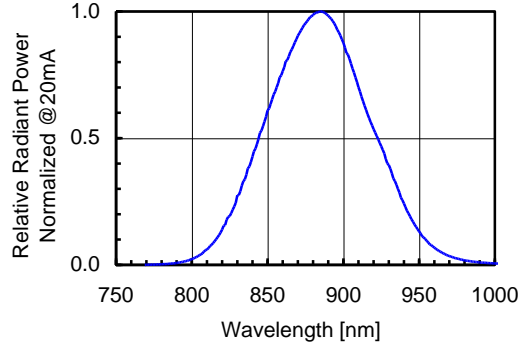


Fig 3. Relative Radiant Power vs. Forward DC Current

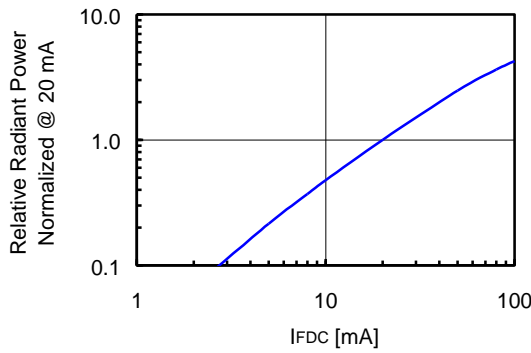


Fig 4. Relative Radiant Power vs. Forward Peak Current

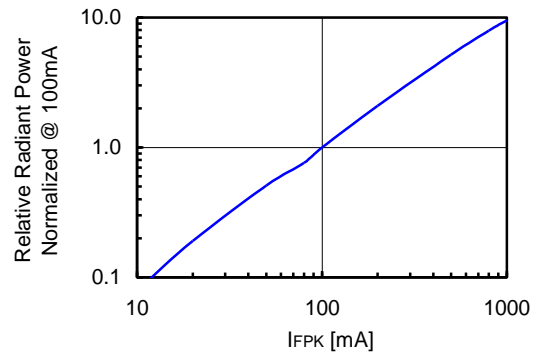


Fig 5. Forward DC Voltage vs. Temperature

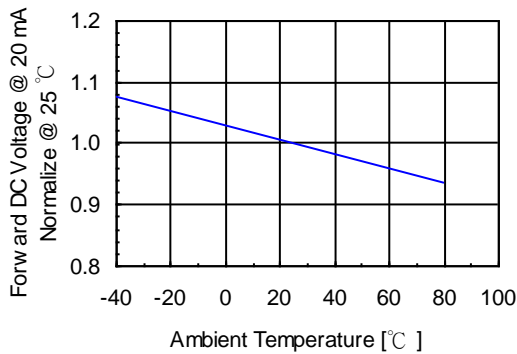


Fig 6. Relative Radiant Power vs. Temperature

