



L385-__ __ Ultraviolet LED Lamp

This series of L385-__ __ is an InGaN LED mounted on a lead frame with a clear epoxy lens.

On forward bias, it emits a band of visible light that peaks 385nm.

This UV series is stable against for static electric damage in the features.

1) Specifications

- | | |
|---------------------|-------------------|
| (1) Chip material | InGaN |
| (2) Peak wavelength | 385nm typ. |
| (3) Package | Clear epoxy resin |
| (4) Lead frame | Soldered |

2) Absolute Maximum Ratings

Item	Symbol	Maximum Rated Value	Unit	Ambient Temperature
Power Dissipation	P _D	110	mW	T _a =25°C
Forward Current	I _F	30	mA	T _a =25°C
Reverse Voltage	V _R	3	V	T _a =25°C
Operating Temperature	T _{OPR}	-30 ~ +85	°C	T _a =25°C
Storage Temperature	T _{STG}	-30 ~ +100	°C	
Soldering Temperature	T _{SOL}	250	°C	

3) Electro-Optical Characteristics [T_a=25°C]

Item	Symbol	Condition	Minimum	Typical	Maximum	Unit
Forward Voltage	V _F	I _F =20mA		3.5	4.3	V
Reverse Current	I _R	V _R =3V			10	μA
Total Radiated Power	P _o	I _F =20mA		3.5		mW
Peak Wavelength	λ _P	I _F =20mA	375	385	395	nm
Half Width	Δλ	I _F =20mA		17		nm

4) Characteristics of Brightness [T_a=25°C]

Type	Viewing Half Angle	I _V [mcd] I _F =20mA			I _E [mW/sr] I _F =20mA			Dimension	
		Min.	Typ.	Max.	Min.	Typ.	Max.	Dia	Figure
L385-01	±6°	-	20	-	-	20	-	Φ5	1
L385-02	±3°	-	25	-	-	25	-	Φ5	2
L385-03	±7°	-	18	-	-	15	-	Φ5	3
L385-04	±17°	-	6	-	-	6	-	Φ5	4
L385-05	±46°	-	2	-	-	1	-	Φ5	5
L385-06	±3°	-	30	-	-	25	-	Φ5	6
L385-09	±23°(Long)	-	10	-	-	9	-	Φ5	7
	±15°(Short)	-			-			Oval	
L385-33	±11°	-	8	-	-	10	-	Φ3	9
L385-36	±23°	-	4	-	-	4	-	Φ3	10

‡Brightness is measured by Tektronix J-16.

‡Radiant Intensity is measured by Ando Optical Multi Meter AQ2140 & AQ2741

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