

L405-30 High power UV stem type LED

The series of L405-30 is an InGaN UV LED mounted on a metal stem and covered hermetically sealed with f5 glass-lens can.

On forward bias it emits a high power radiation, which peaks at 405nm

Absolute Maximum Ratings

Item	Symbol	Maximum Rated Value	Unit	Ambient Temperature
Power Dissipation	PD	120	mW	Ta=25°C
Forward Current	IF	30	mA	Ta=25°C
Pulse Forward Current	IFP	50	mA	Ta=25°C
Reverse Voltage	VR	3	V	Ta=25°C
Operating Temperature	TOPR	-30 ~ +85	°C	Ta=25°C
Storage Temperature	TSTG	-30 ~ +100	°C	
Soldering Temperature	TSOL	250	°C	

‡ Pulse Forward Current condition: Duty=1% and Pulse Width=10us.

‡ Soldering condition: Soldering condition must be completed within 3 seconds at 250°C

Electro-Optical Characteristics [Ta=25°C]

Item	Symbol	Condition	Minimum	Typical	Maximum	Unit
Forward Voltage	VF	IF=20mA		3.8	4.3	V
Reverse Current	IR	VR=3V			10	uA
Peak Wavelength	λP	IF=20mA	395	405	415	nm
Half Width	Δλ	IF=20mA		15		nm

Radiant Power and Radiant Intensity at IF=20mA [Ta=25°C]

Type	Viewing Half Angle	PO [mW]			IE [mW/sr]		
		Min.	Typ.	Max.	Min.	Typ.	Max.
L405-30M32	±15°	1.5	3.0		12	25	
L405-30K42	±5°	1.0	2.0		20	45	
L405-30T52	±45°	1.5	3.0		1.0	2.4	

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

Outer dimension (Unit: mm)

