

LED375-XX Ultraviolet LED Lamp

This series of LED375-xx 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 375nm. This UV series is stable against for static electric damage in the features.

1) Specifications

(1) Chip material	InGaN
(2) Peak wavelength	375 nm 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		3.6	4.3	V
Reverse Current	I _R	V _R =3V			10	uA
Total Radiated Power	P _O	I _F =20mA		2.5		mW
Peak Wavelength		I _F =20mA	360	375	390	nm
Half Width	□□	I _F =20mA		17		nm

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

Type	Viewing Half Angle	IV [mcd] I _F =20mA			IE [mW/sr] I _F =20mA			Dimension	
		Min.	Typ.	Max.	Min.	Typ.	Max.	Dia	Figure
L375-01	±6°	-	25	-	-	10	-	5	1
L375-02	±3°	-	-	-	-	-	-	5	2
L375-03	±7°	-	30	-	-	8	-	5	3
L375-04	±17°	-	15	-	-	4	-	5	4
L375-05	±46°	-	2.5	-	-	1	-	5	5
L375-06	±3°	-	70	-	-	30	-	5	6
L375-09	±23°(Long)	-	-	-	-	-	-	5	7
	Oval								
L375-33	±11	-	15	-	-	7	-	3	9
L375-36	±23	-	7	-	-	3	-	3	10

‡Brightness is measured by Tektronix J-16.

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

LED385-XX Ultraviolet LED Lamp

This series of LED385-xx 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	5	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	uA
Total Radiated Power	P _O	I _F =20mA		3.5		mW
Peak Wavelength	λ _P	I _F =20mA	375	385	395	nm
Half Width	λ _{1/2}	I _F =20mA		17		nm

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

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

‡Brightness is measured by Tektronix J-16.

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

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LED395-xxV Ultraviolet LED Lamp

This series of LED395-xx 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 395nm.

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

1) Specifications

(1) Chip material	InGaN
(2) Peak wavelength	395 nm 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	120	mW	T _a = 25°C
Forward Current	I _F	30	mA	T _a = 25°C
Reverse Voltage	V _R	5	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}	260	°C	

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

Item	Symbol	Condition	Minimum	Typical	Maximum	Unit
Forward Voltage	V _F	I _F =20mA		3.8	4.3	V
Reverse Current	I _R	V _R =5V			10	uA
Total Radiated Power	P _O	I _F =20mA		6.0		mW
Peak Wavelength	□P	I _F =20mA	385	395	405	nm
Half Width	□□	I _F =20mA		15		nm

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

Type	Viewing Half Angle	Brightness I _F =20mA unit: mcd			Outer Dimension	
		Minimum	Typical	Maximum	Dimension	Figure
L395-01V	±10°		100		5	1
L395-02V	±5°		130		5	2
L395-03V	±12°		90		5	3
L395-04V	±23°		35		5	4
L395-05V	±30°		15		5	5
L395-06V	±9°		140		5	6
L395-09V	±20°(Long)		60		5	7
	±13°(Short)			Oval		
L395-10V						8
L395-33V	±18°		45		3	9
L395-36V	±28°		20		3	10

‡Brightness is measured by Tektronix J-16.

‡Radiated Power is measured by Ando Optical Multi Meter AQ2140 & AQ2741

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LED405-xxV Violet LED Lamp

This series of LED405-xxV 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 405nm. This UV series is stable against for static electric damage in the features.

1) Specifications

(1) Chip material	InGaN
(2) Peak wavelength	405nm 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	120	mW	T _a = 25°C
Forward Current	I _F	30	mA	T _a = 25°C
Reverse Voltage	V _R	5	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}	260	°C	

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

Item	Symbol	Condition	Minimum	Typical	Maximum	Unit
Forward Voltage	V _F	I _F =20mA		3.8	4.3	V
Reverse Current	I _R	V _R =5V			10	uA
Total Radiated Power	P _O	I _F =20mA		6.0	10.0	mW
Peak Wavelength	λ _P	I _F =20mA	395	405	415	nm
Half Width	λ _{1/2}	I _F =20mA		15		nm

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

Type	Viewing Half Angle	Brightness I _F =20mA unit: mcd			Outer Dimension	
		Minimum	Typical	Maximum	Dimension	Figure
L405-01V	±10°		40		5	1
L405-02V	±5°		50		5	2
L405-03V	±12°		25		5	3
L405-04V	±23°		11		5	4
L405-05V	±30°		2		5	5
L405-06V	±9°		60		5	6
L405-09V	±20°(Long)		20		5	7
	±13°(Short)			Oval		
L405-10V					10	8
L405-33V	±18°		25		3	9
L405-36V	±28°		10		3	10

‡Brightness is measured by Tektronix J-16.

‡Radiated Power is measured by Ando Optical Multi Meter AQ2140 & AQ2741

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Figure-1 5 mm Mold (Type 01)

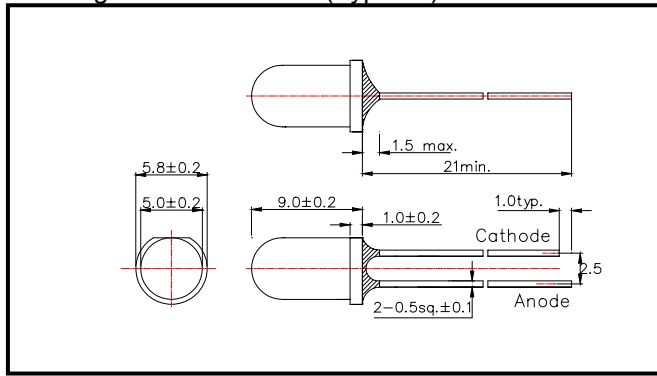


Figure-3 5 mm Mold (Type 03)

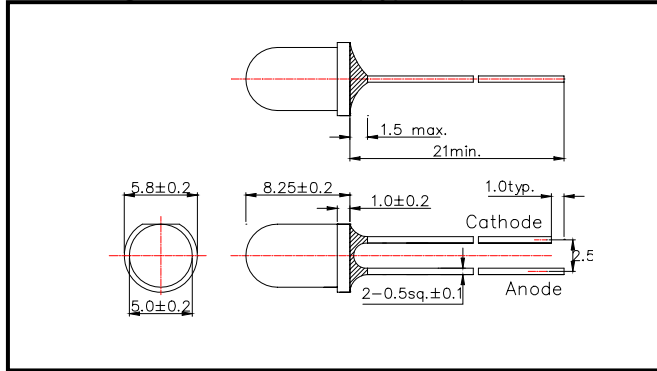


Figure-5 5 mm Mold (Type 05)

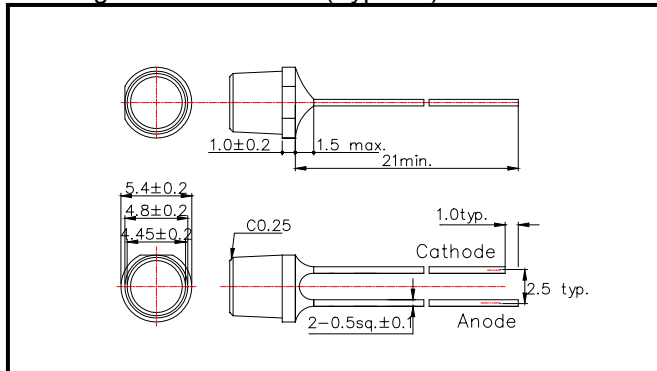


Figure-7 5 mm Mold (Type 09)

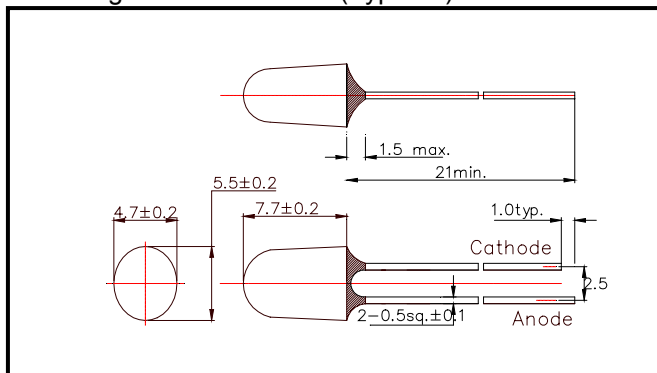


Figure-9 3 mm Mold (Type 33)

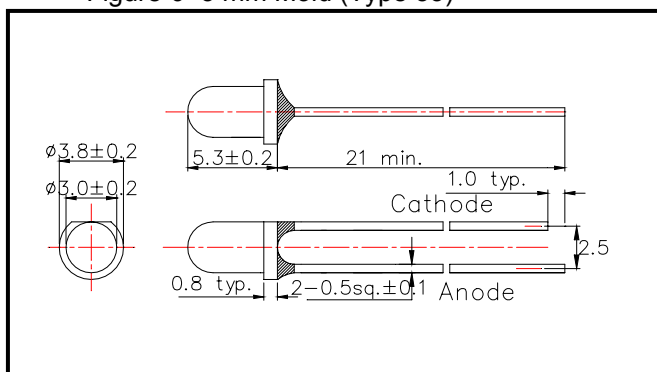


Figure-2 5 mm Mold (Type 02)

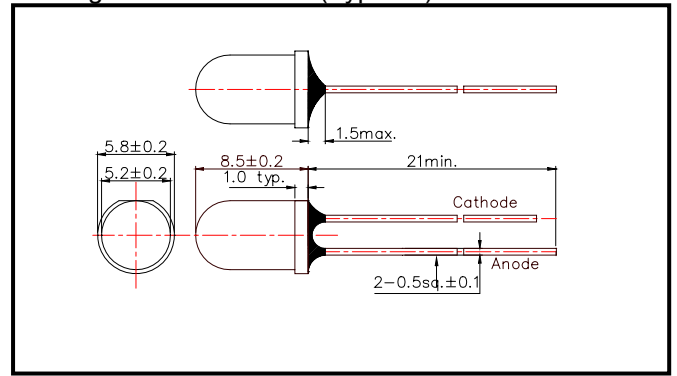


Figure-4 5 mm Mold (Type 04)

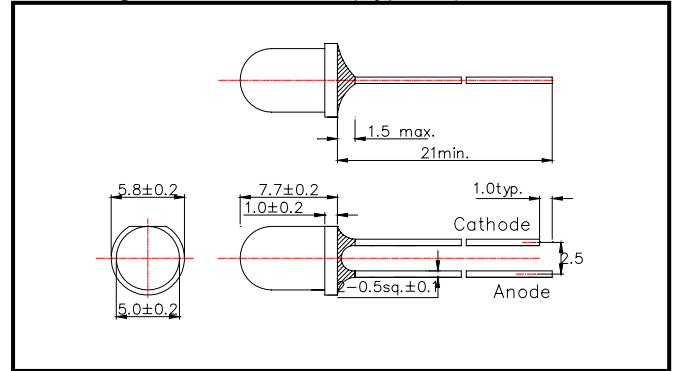


Figure-6 5 mm Mold (Type 06)

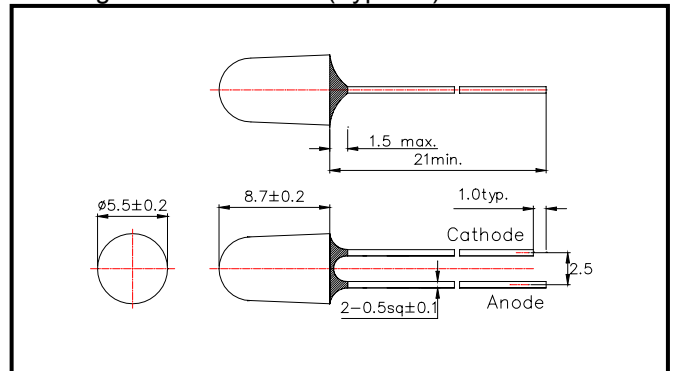


Figure-8 5 mm Mold (Type 10)

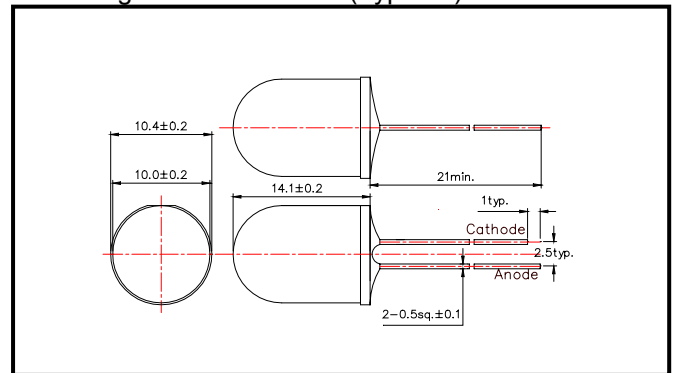


Figure-10 3 mm Mold (Type 36)

