

1. Package Size: 10mm Round TYPE 0.5W Series

2. Color and Luminous Intensity:

Part No.	Emitted Color	Resin Color	Luminous Intensity (LM)		Test Current
			MIN.	TYP.	
CL-LHP10213CRFC15T	Red	CLEAR	15	20	150mA
CL- LHP10213AMBC15T	Amber	CLEAR	15	20	
CL- LHP10213CYFC15T	Yellow	CLEAR	15	20	
CL- LHP10213TGC15T	Ultra Green	CLEAR	25	35	
CL- LHP10213TBC15T	Blue	CLEAR	5	7	
CL- LHP10213BWC15T	White	CLEAR	38	45	

※1 Luminous intensity : 1chips

3.Absolute Maximum Ratings:

Item	Symbol	Absolute Maximum Ratings							Unit	
		CRF	AMB	YGF	CYF	TG	TB	BW		
Power Dissipation	P_d	500	500	500	500	500	500	500	mW	
Forward Current	I_F	150	150	150	150	150	150	150	mA	
Pulse Forward Current [※]	I_{FRM}	300	300	300	300	300	300	300	mA	
Reverse Voltage	V_R	5	5	5	5	5	5	5	V	
Operating Temperature	T_{opr}	- 40 ~ + 85								°C
Storage Temperature	T_{stg}	- 40 ~ + 85								°C

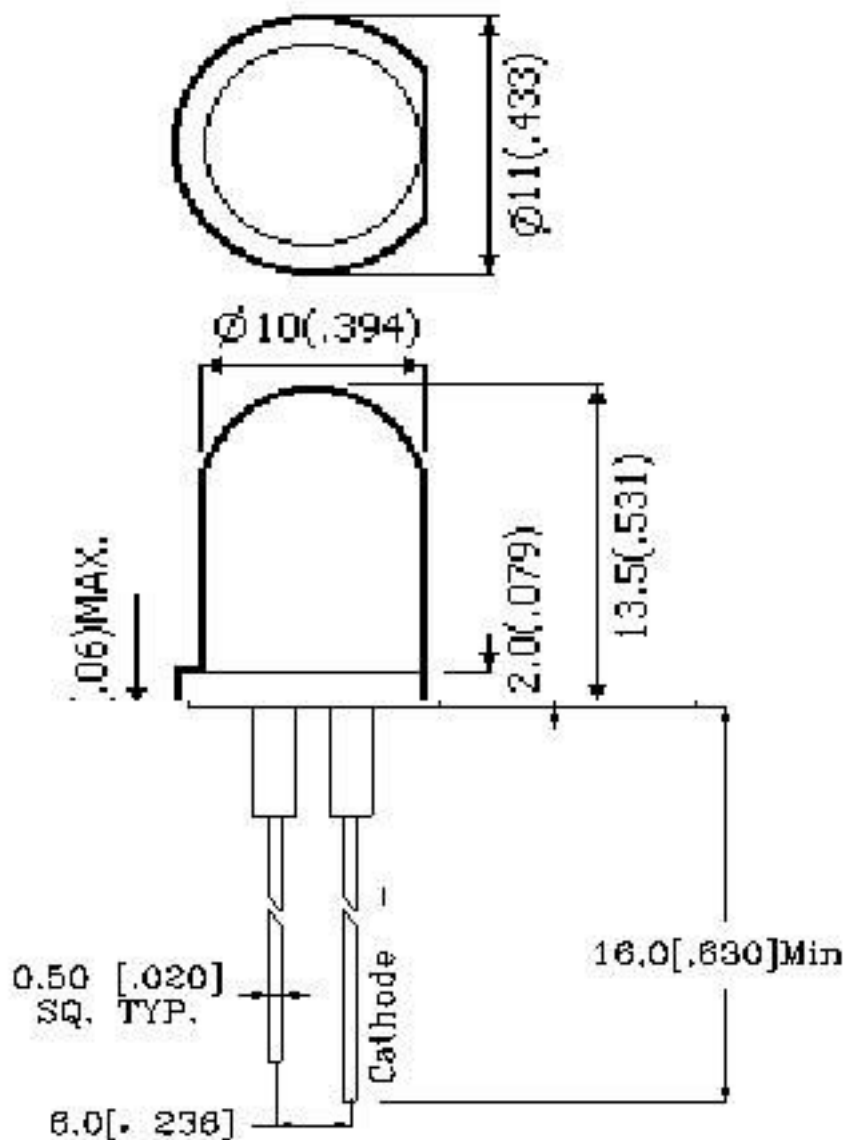
※2 Power Dissipation : 1chips

※3 I_{FRM} Measurement condition : Pulse Width \leq 2ms, Duty \leq 1/5

4.Electro-Optical Characteristics

Item	Conditions	Symbol	Characteristics							Unit	
				CRF	AMB	YGF	CYF	TG	TB		BW
Forward Voltage	$I_F=150mA$	V_F	TYP.	1.8	1.8	1.8	1.8	2.8	2.8	2.8	V
			MAX.	2.3	2.5	2.5	2.5	3.5	3.5	3.5	
Dominant Wavelength	$I_F=150mA$	λ_d	TYP.	625	605	570	590	525	460	2700k 8000k	nm

PACKAGE DIMENSIONS



Notes :

1. Dimensions are in millimeters.
2. Tolerance is ± 0.25 mm without noted.

Precautions For Use LED

1. Over-current-proof

Customer must apply resistors for protection; otherwise slight voltage shift will cause big current change (Burn out will happen).

2. Storage

2.1 Do not open moisture proof bag before the products are ready to use.

2.2 Before opening the package: The LEDs should be kept at 30°C or less and 90%RH or less.

2.3 After opening the package: The LED's floor life is 168 Hrs under 30°C or less and 60% RH or less. If unused

LEDs remain, it should be stored in moisture proof packages.

2.4 If the moisture absorbent material (silica gel) has faded away or the LEDs have exceeded the storage time, baking treatment should be performed using the following conditions.

Baking treatment: 60±5°C for 24 hours.

3. Soldering Condition

Pb-free solder temperature profile

