



CIEL LIGHT CO., LTD.

PRODUCT SPECIFICATION

Model No.: CLT-4031BUG-11

Drawing No.: _____

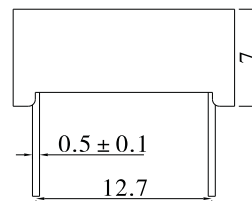
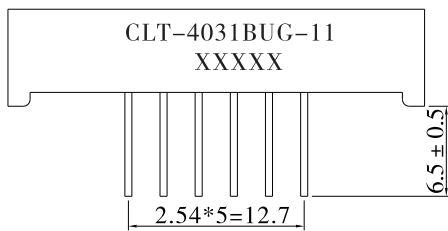
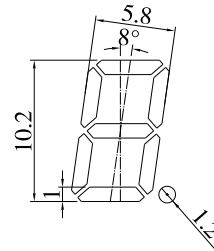
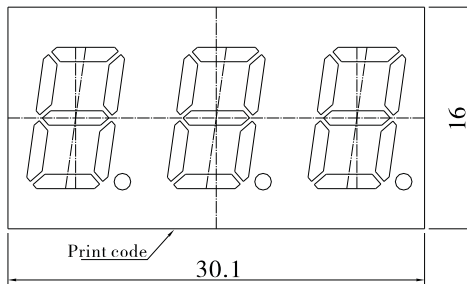
Customer: _____

Customer's Model No.: _____

Customer's Drawing No.: _____

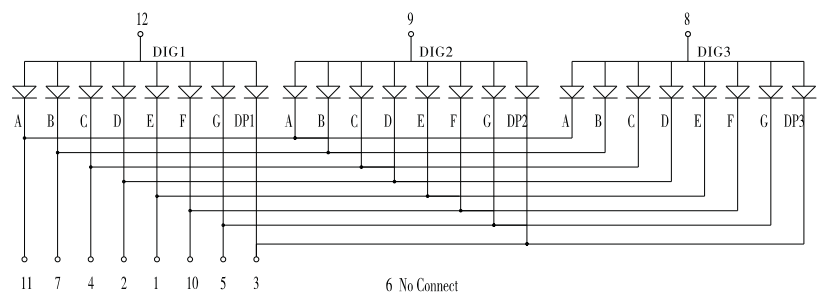
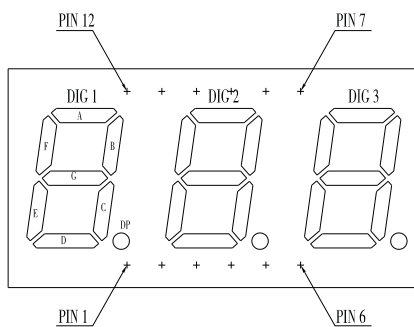
Descriptions

1. Emitting Color: Ultra Green
2. Lens Color: White Diffused
3. Surface Black Color : Black
4. Dice Material: AlGaInP/GaAs



Tolerance is ± 0.25 mm unless otherwise noted, Unit=mm
Pin bending $\leq$ length*1%

Circuit Diagram (C.A.)



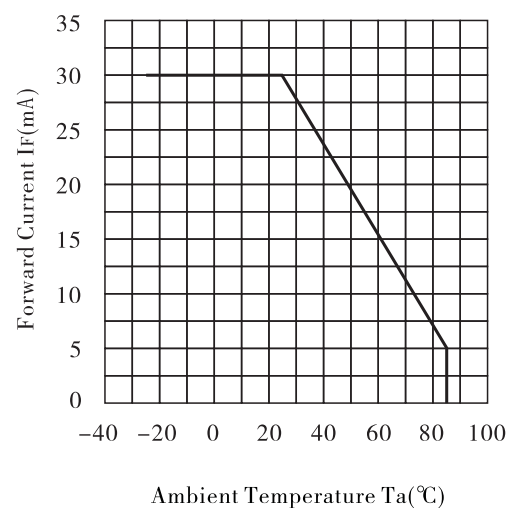
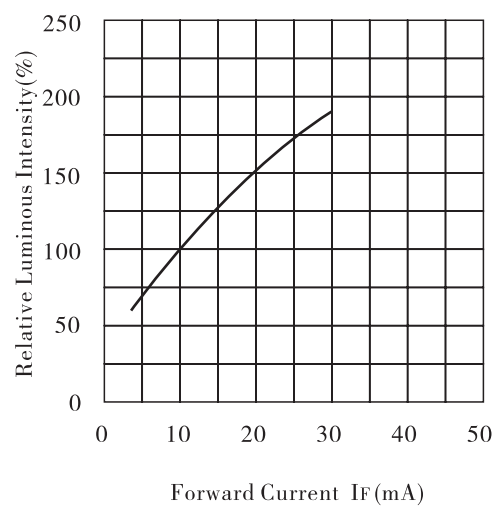
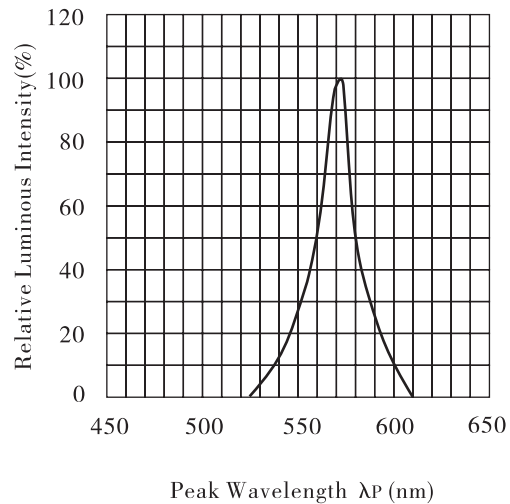
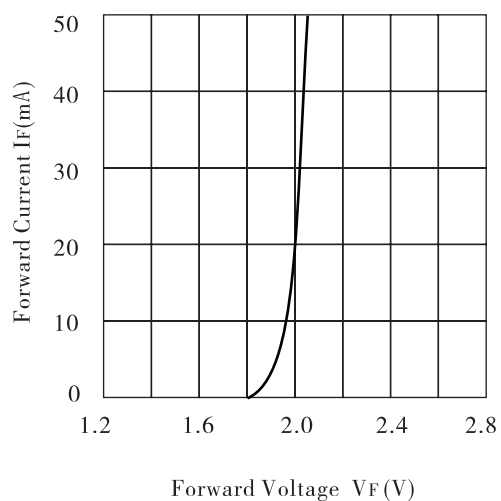
Electrical Optical Characteristics(Ta=25°C)

Parameter	Symbol	Ultra Green			Unit	Test Condition
		Min	Typ	Max		
Forward Voltage	V_F	---	2.0	2.4	V	IF=20mA
Luminous Intensity	I_V	7.0	13.7	---	mcd	IF=10mA
Peak Wavelength	λ_P	---	572	---	nm	IF=20mA
Dominant Wavelength	λ_d	---	570	---	nm	IF=20mA
Spectral Line half-width	$\Delta\lambda$	---	20	---	nm	IF=20mA
Reverse Leakage Current	I_R	---	---	50	μA	VR=5V

Absolute Maximum Parameters(Ta=25°C)

Parameter	Symbol	Condition	Rating	Unit
Power Dissipation	P_D	---	80	mW
Reverse Voltage	V_R	---	5	V
Forward Average Current	I_F	---	30	mA
Temperature Coefficient	I/C	---	0.33	mA/°C
Pulse Current	IFP	Duty=1/10,1kHz	100	mA
Operating Temperature Range	Topr	---	-25 ~ +85	°C
Storage Temperature Range	Tstg	---	-30 ~ +100	°C
Soldering Condition	Tsd	---	260°C/5sec	°C

Typical Electro/Optical Characteristic Curves($T_a=25^{\circ}\text{C}$)



Reliability Test Conditions

Test Item	Test Condition	Result	Judgment Criteria
Consecutive operating life test	IF=20mA, T=25℃, t=168h	0/10	Forward Voltage $VF(V) = \text{Upper Limit} \times 1.2$ Reverse Leakage Current $IR(\mu A) = \text{Upper Limit} \times 2.0$ Luminous Intensity IV $(mcd) = \text{Lower Limit} \times 0.7$
High temperature storage life test	T=100℃, t=168h	0/10	
Low temperature storage life test	T=-25℃, t=168h	0/10	
High temperature humidity storage life test	T=85 ± 2℃, RH=85% ± 3, t=168h	0/10	
Temperature cycle test	-25℃~25℃~100℃ 30min 5min 30min 10cycles	0/10	
Thermal shock test	100℃ 0℃ 5min 5min 20cycles	0/10	
Soldering heat test	T=260 ± 5℃, t=10s ± 1s	0/10	
Solderability test	T=235 ± 5℃, t=5s ± 0.5s	0/10	Steeped Part ≥ 95%
Fall test	h=100cm, 50times	0/10	Surface Appearance Photoelectric Properties Intact
Terminal strength test	W=9.8N, t=30 ± 5s	0/10	
Lead bending test	W=4.9N, 2times	0/10	