



Data Sheet

Customer:

Part No:

Sample No:

Description:

Item No:

CLT-8032CPG-11

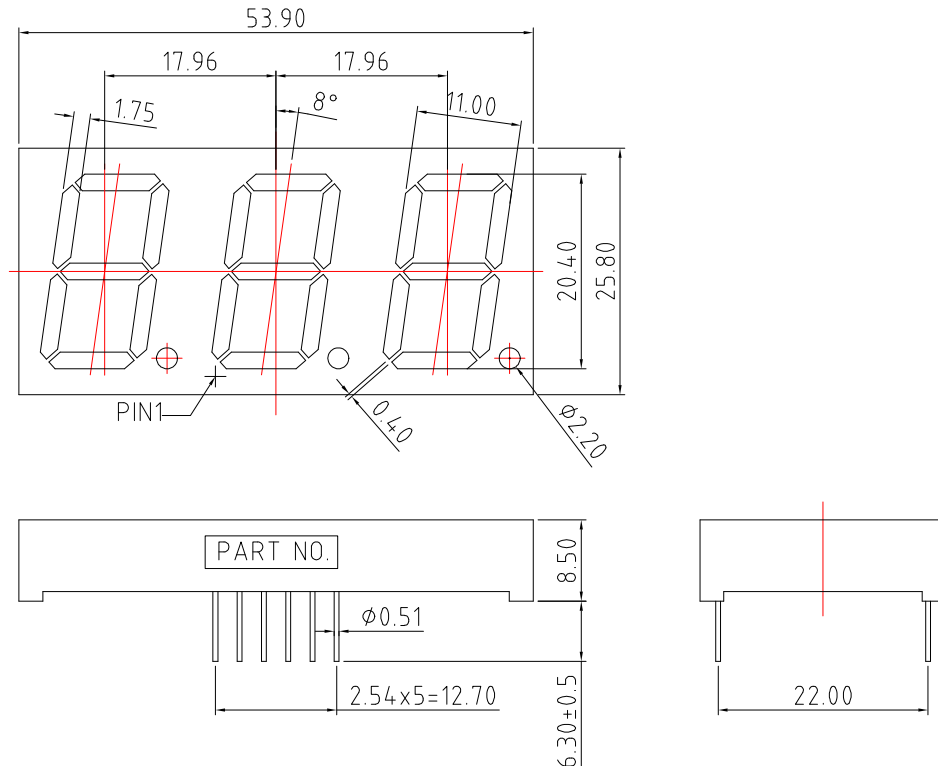
0.8 inch 3 Digit Green Color

Customer			
Check	Inspection	Approval	Date

Descriptions

1. Emitting Color: Pure Green
2. Lens Color: White Diffused
3. Surface Black Color : Black
4. Dice Material: InGaN/GaN

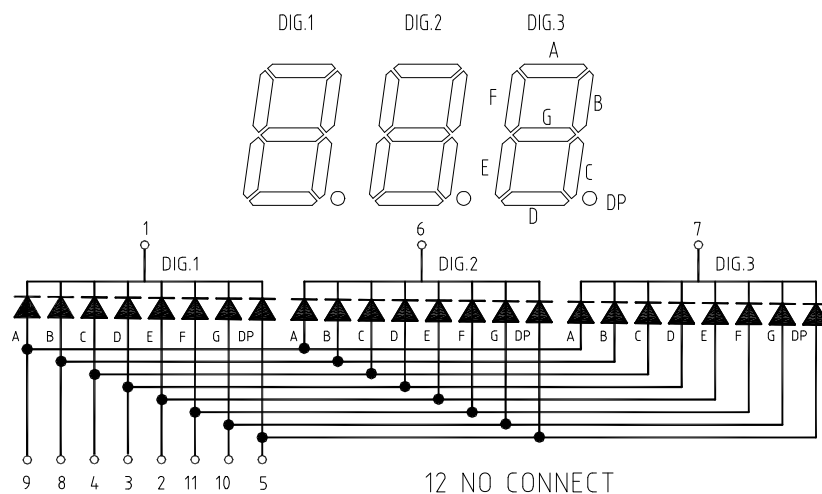
Outline drawing



Tolerance is $\pm 0.25\text{mm}$ unless otherwise noted , Unit=mm

Pin bending $\leq \text{length} \times 1\%$

Internal Circuit Diagram (C.C.)



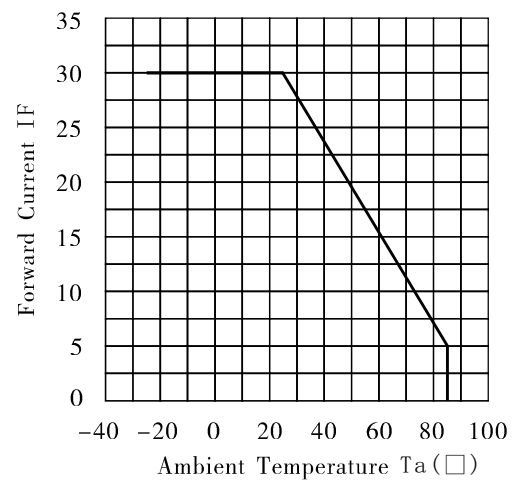
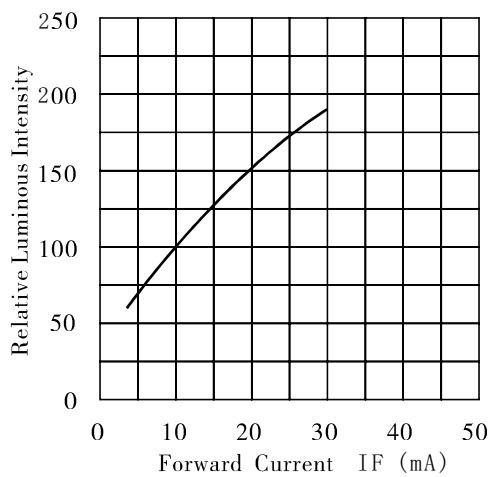
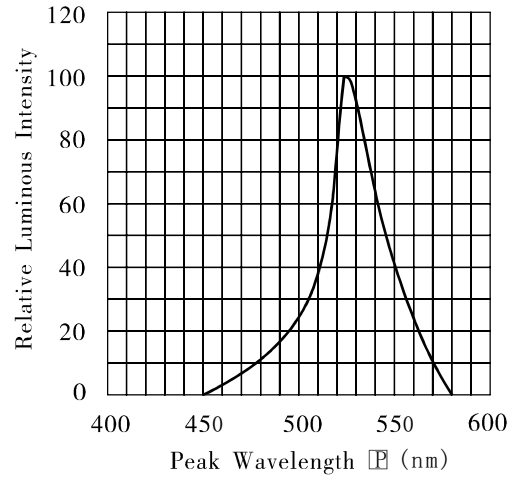
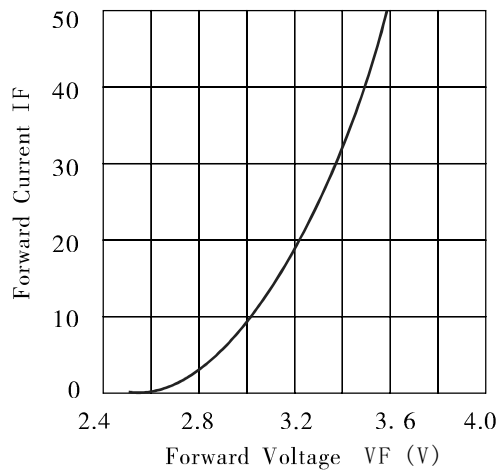
Electrical And Optical Characteristics (Ta=25℃)

Parameter	Symbol	Pure Green			Unit	Test Condition
		Min	Typ	Max		
Forward Voltage	V _F	---	3.2	3.6	V	IF=20mA
Luminous Intensity	I _V	19.0	37.2	---	med	IF=10mA
Peak Wavelength	λ _P	---	525	---	nm	IF=20mA
Dominant Wavelength	λ _d	---	520	---	nm	IF=20mA
Spectral Line half-width	Δλ	---	30	---	nm	IF=20mA
Reverse Leakage Current	I _R	---	---	50	μA	V _R =5V

Absolute Maximum Parameters (Ta=25℃)

Parameter	Symbol	Test Condition	Rating	Unit
Power Dissipation	P _D	---	90	mW
Reverse Voltage	V _R	---	5	V
Forward Average Current	I _F	---	25	mA
Temperature Coefficient	I/C	---	0.33	mA/℃
Pulse Current	I _{FP}	Duty=1/10,1kHz	100	mA
Operating Temperature Range	T _{opr}	---	-25 ~ +85	℃
Storage Temperature Range	T _{stg}	---	-30 ~ +100	℃
Soldering Temperature	T _{sd}	---	260℃/5sec	℃

Typical Electrical/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	0/12	Forward Voltage $V_F(V) = \text{Upper Limit} \times 1.2$ Reverse Leakage Current $I_R(\mu A) = \text{Upper Limit} \times 2.0$ Luminous Intensity I_v $(mcd) = \text{Lower Limit} \times 0.7$
High temperature storage life test	T=100℃, t=168h	0/12	
Low temperature storage life test	T=-25℃, t=168h	0/12	
high Temperature humidity storage life test	T=85 ± 2℃, RH=85% ± 3, t=168h	0/12	
Temperature cycle test	-25℃~25℃~100℃, 30min 5min 30min 10cycles	0/12	
Thermal shock test	100℃ 0℃ 5min 5min 20 cycles	0/12	
Soldering heat test	T=260 ± 5℃, t=10s ± 1s	0/12	Steeped Part ≥ 95%
Solderability test	T=230 ± 5℃, t=5s ± 0.5s	0/12	
Fall test	h=100cm, Free fall, 3times	0/12	Intact
Terminal strength test	W=9.8N, t=30 ± 5s	0/12	
Lead Bending test	W=4.9N, 2times	0/12	