



Data Sheet

Customer: _____

Part No: _____

CLQ-2841EUW-11T(CLOCK)

Sample No: _____

Description: _____

0.28 inch 4 Digit White Color

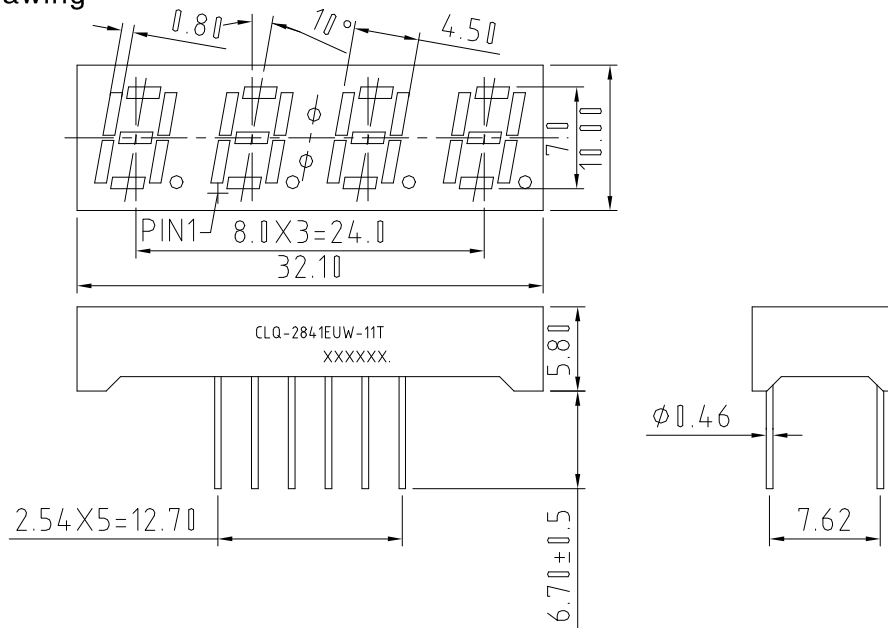
Item No: _____

Customer			
Check	Inspection	Approval	Date

Descriptions

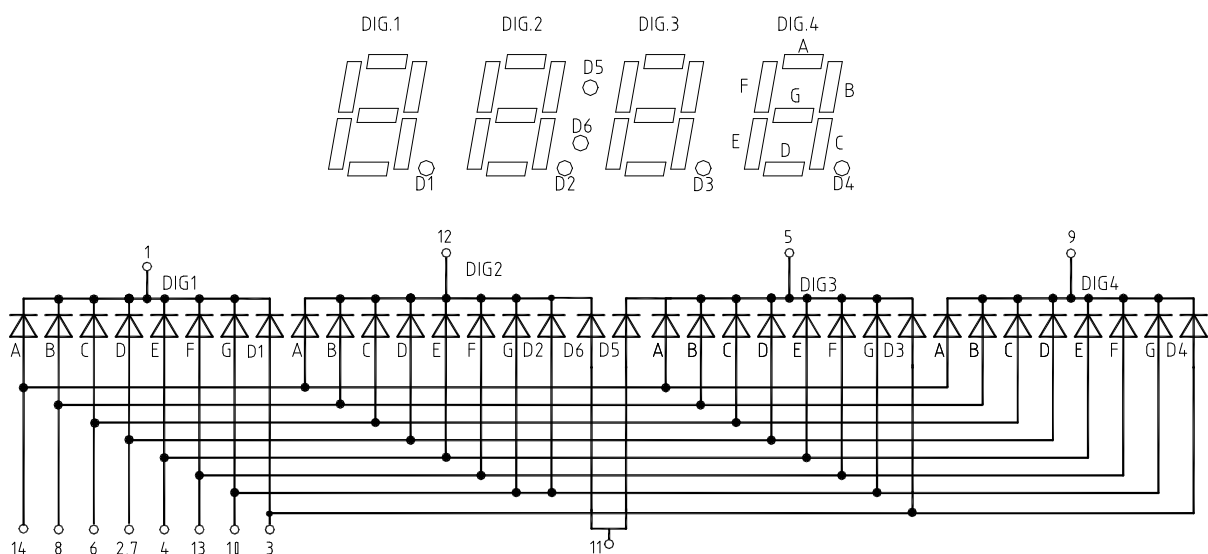
1. Emitting Color: White
2. Lens Color: White Diffused
3. Surface Black Color : Black
4. Dice Material: InGaN/GaN
5. Mask Material: Black fluorescein 0.125PET

Outline drawing



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

Internal Circuit Diagram (C.C.)

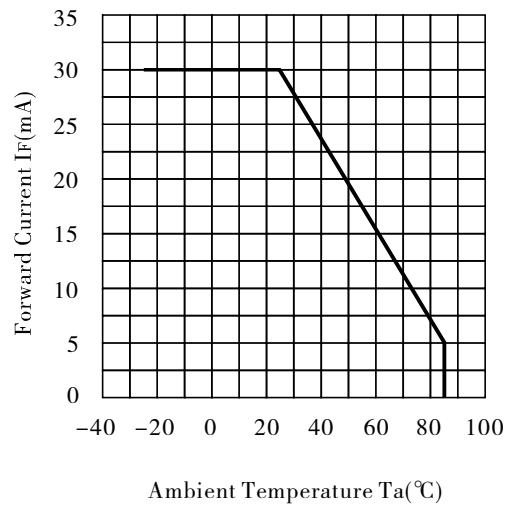
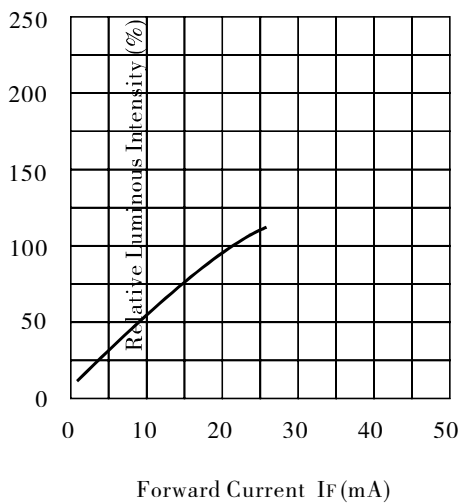
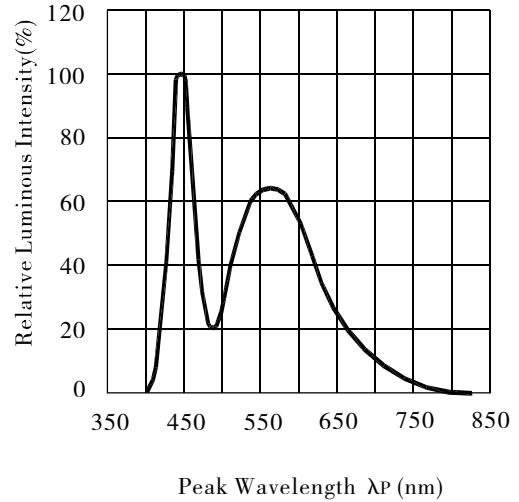
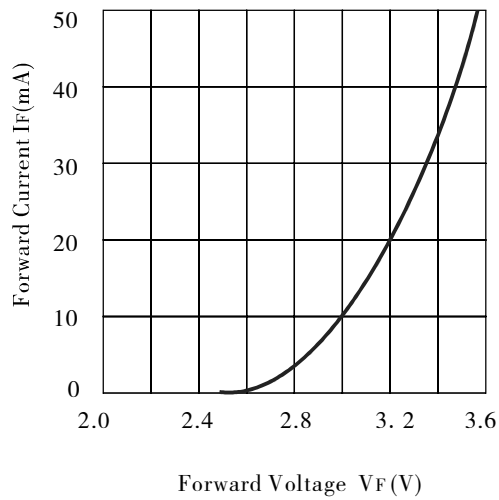


Electrical optical characteristics (Ta=25°C)

Parameter	Symbol	White			Unit	Test Condition
		Min	Typ	Max		
Forward Voltage	V _F	---	3.2	3.6	V	IF=20mA
Luminous Intensity	I _v	9.8	19.0	---	mcd	IF=10mA
Chromaticity Coordinates	X	---	0.28	---	nm	IF=20mA
	Y	---	0.27	---	nm	IF=20mA
Spectral Line half-width	Δλ	---	30	---	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	---	120	mW
Reverse Voltage	V _R	---	5	V
Forward Average Current	I _F	---	30	mA
Temperature Coefficient	I/C	---	0.4	mA/°C
Pulse Current	I _{FP}	Duty=1/10,1kHz	100	mA
Operating Temperature Range	T _{opr}	---	-25 ~ +85	°C
Storage Temperature Range	T _{stg}	---	-30 ~ +100	°C
Soldering Condition	T _{sd}	---	260°C/5sec	°C

Typical Electro/Optical Characteristic Curves(Ta=25°C)

Film


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)= Upper Limit × 1.2 Reverse Leakage Current IR(μA)=Upper Limit × 2.0 Luminous Intensity IV (mcd)=Lower Limit × 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	