



Data Sheet

Customer: _____

Part No: _____

CLV-3663AUR-11

Sample No: _____

Description: _____

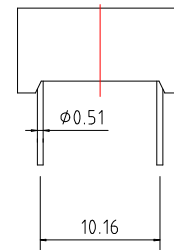
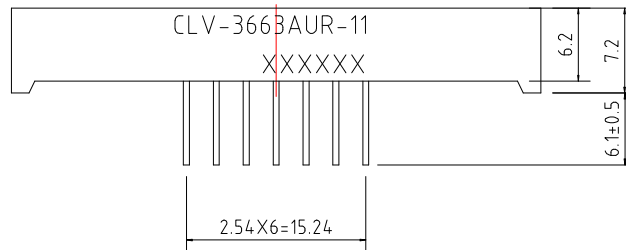
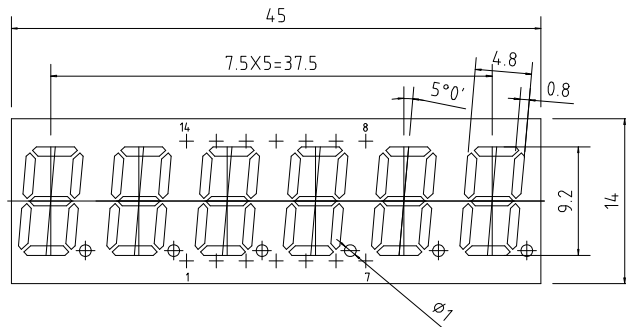
3.6 inch 6 Digit Red Color

Item No: _____

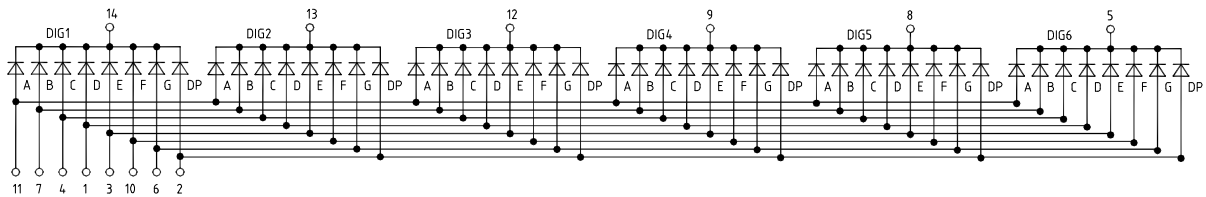
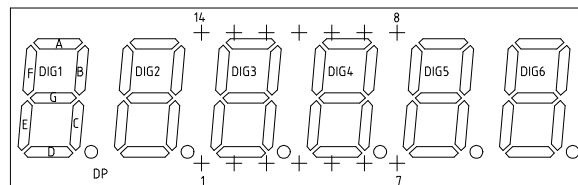
Customer			
Check	Inspection	Approval	Date

Descriptions

1. Emitting color: Ultra Red
2. Lens color: White Diffuse
3. Surface black color : Black
4. Dice material: AlGaInP

Outline drawing


Tolerance is $\pm 0.25\text{mm}$ unless otherwise noted, Unit=mm
 Pin bending $\leq \text{length} * 1\%$

Internal Circuit Diagram (C.C.)


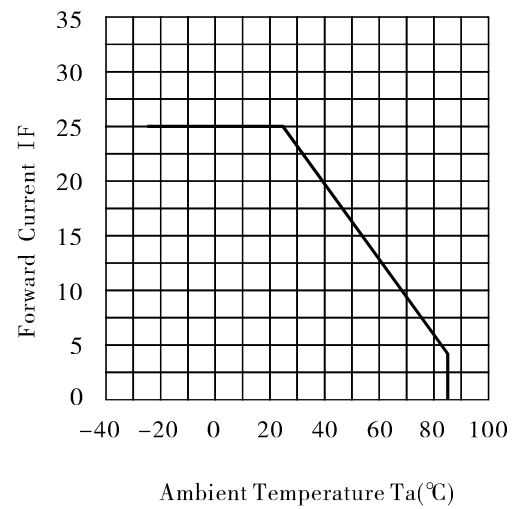
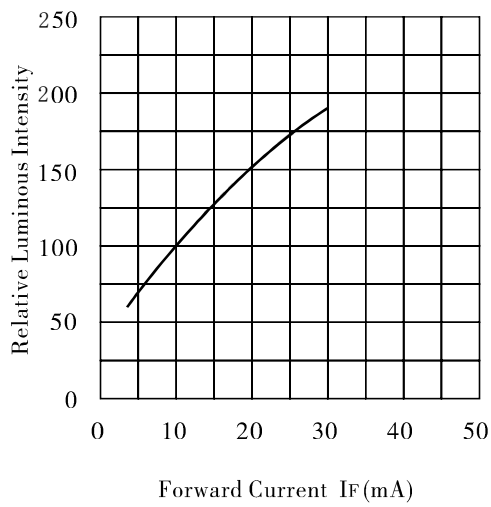
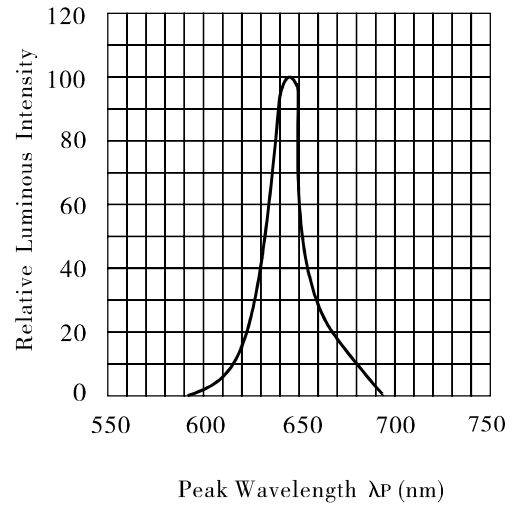
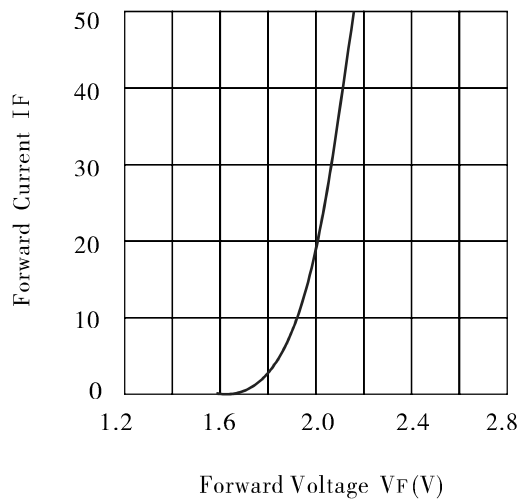
Electrical optical characteristics (Ta=25°C)

Parameter	Symbol	Ultra Red			Unit	Test Condition
		Min	Typ	Max		
Forward Voltage	V_F	---	2.0	2.4	V	IF=20mA
Luminous Intensity	I_V	2.5	5.0	---	mcd	IF=20mA
Peak Wavelength	λ_P	---	645	---	nm	IF=20mA
Dominant Wavelength	λ_d	---	640	---	nm	IF=20mA
Spectral Line half-width	$\Delta\lambda$	---	20	---	nm	IF=20mA
Reverse Leakage Current	I_R	---	---	50	μA	$V_R=5V$

Absolute maximum parameters (Ta=25°C)

Parameter	Symbol	Condition	Rating	Unit
Power Dissipation	PD	---	60	mW
Reverse Voltage	VR	---	5	V
Forward Average Current	IF	---	25	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	---	260/5sec	°C

Typical Electro-Optical characteristic curves (Ta=25°C)



Reliability test conditions

Test Item	Test Condition	Result	Judgment criteria
Consecutive operating life test	IF=20mA, T=25°C, 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) = Lower Limit $\times 0.7$
High temperature storage life test	T=100°C, t=168h	0/12	
Low temperature storage life test	T=-25°C, t=168h	0/12	
high Temperature humidity storage life test	T=85 ± 2°C, RH=85% ± 3, t=168h	0/12	
Temperature cycle test	-25°C~25°C~100°C, 30min 5min 30min 10cycles	0/12	
Thermal shock test	100°C 0°C 5min 5min 20 cycles	0/12	
Soldering heat test	T=260 ± 5°C, t=10s ± 1s	0/12	
Solderability test	T=230 ± 5°C, t=5s ± 0.5s	0/12	Steeped Part ≥ 95%
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	