

Descriptions

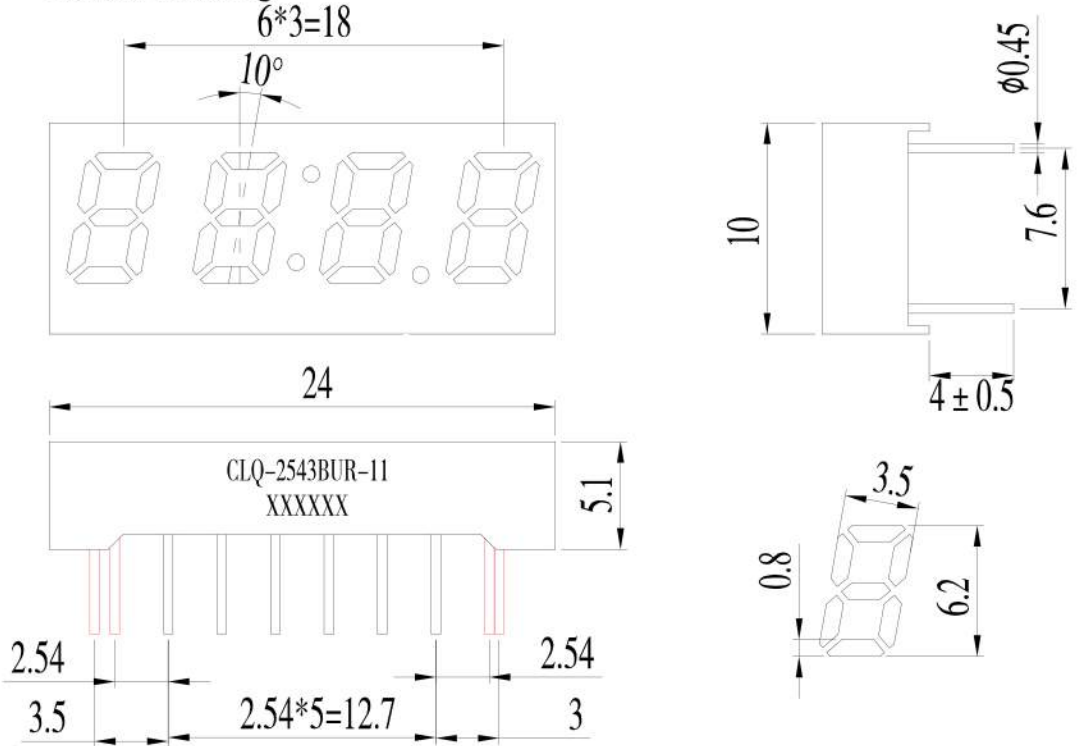
Emitting Color: Red

Lens Color: White Diffused

Surface Ink Color: Black

AlGaInP/GaAs Dice Material: AlGaInP/GaAs

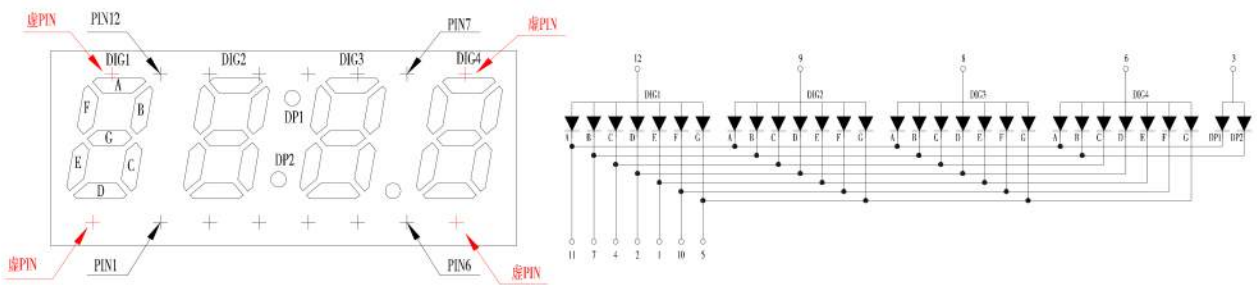
Outline Drawing



Tolerance is ± 0.25mm unless otherwise noted, Unit=mm

Pin bending ≤ length\*1%

Circuit Diagram (C.C.)

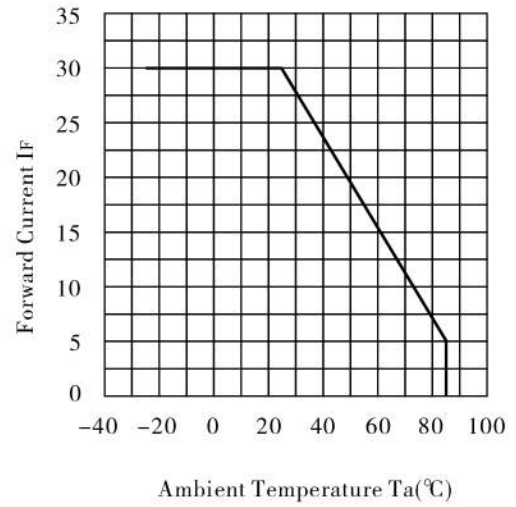
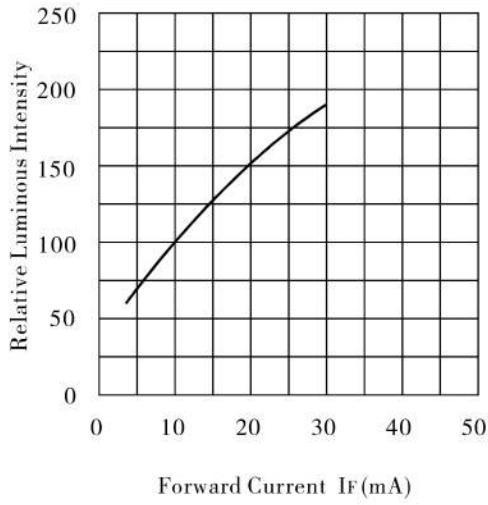
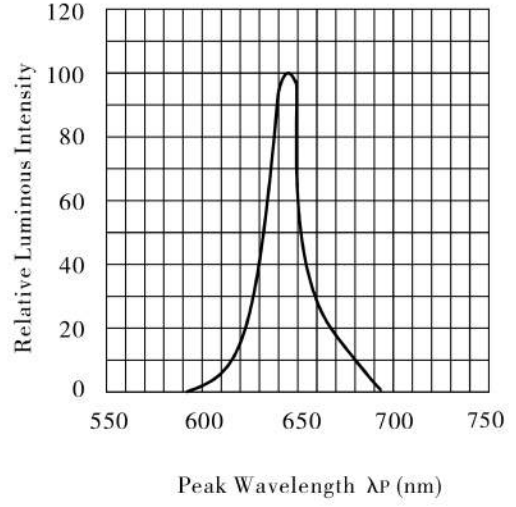
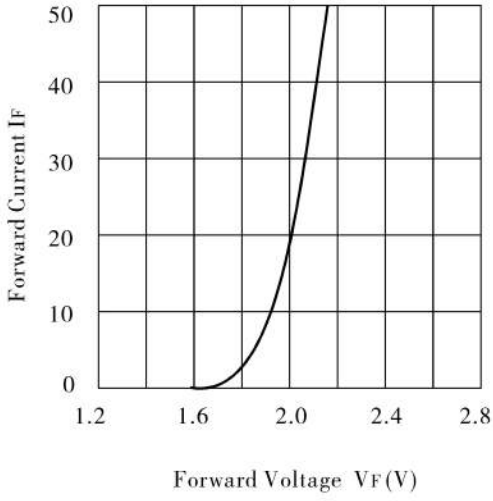


**Electrical And Optical Characteristics ( Ta=25°C )**

Parameter	Symbol	Red			Unit	Test Condition
		Min	Typ	Max		
Forward Voltage	$V_F$	---	2.0	2.4	V	IF=20mA
Luminous Intensity	$I_V$	3.4	5.2	---	med	IF=10mA
Peak Wavelength	$\lambda_P$	---	640	---	nm	IF=20mA
Dominant Wavelength	$\lambda_d$	---	635	---	nm	IF=20mA
Spectral Line half-width	$\Delta\lambda$	---	30	---	nm	IF=20mA
Reverse Leakage Current	$I_R$	---	---	50	$\mu A$	$V_R=5V$

**Absolute Maximum Parameters ( Ta=25°C )**

Parameter	Symbol	Test 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	$I_{FP}$	Duty=1/10,1kHz	100	mA
Operating Temperature Range	$T_{opr}$	---	-25 ~ +85	°C
Storage Temperature Range	$T_{stg}$	---	-30 ~ +100	°C
Soldering Temperature	$T_{sd}$	---	260°C/5sec	°C

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


**Reliability Test Conditions**

Test Item	Test Condition	Result	Judgment criteria
Consecutive perating life test	IF=10mA, T=25°C, 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°C, t=168h	0/10	
Low temperature storage life test	T=-25°C, t=168h	0/10	
high Temperature humidity storage life test	T=85 ± 5°C, RH=85% ± 5, t=168h	0/10	
Temperature cycle test	-25°C~25°C~100°C, 30min 5min 30min 10cycles	0/10	
Thermal shock test	100°C ~ 0°C 5min 5min 20 cycles	0/10	
Soldering heat test	T=260 ± 5°C, t=10s ± 1s	0/10	
Solderability test	T=235 ± 5°C, t=5s ± 0.5s	0/10	Steeped Part ≥ 95%
Fall test	h=100cm, 50 times	0/10	Surface Appearance Photoelectric Properties Intact
Terminal strength test	W=9.8N, t=30 ± 5s	0/10	
Lead Bending test	W=4.9N, 2 times	0/10	