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American Opto Plus LED Corp.
0.36" Case mold Type LED Display
AOP A364YG-L1 G/W
AOP C364YG-L1 G/W

● **EDIT HISTORY**

Version A: Jun. 28, 2017

Preliminary Spec.

Manufacture	Examination	Approving



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● **FEATURES**

- 0.36 inch (9.2 mm) Digit Height.
- Excellent character appearance.
- Case mold type.
- Wide viewing angle.
- Gray face, White segment.
- RoHS compliant, Pb Free.

● **DESCRIPTION**

The A364YG-L1 G/W & C364YG-L1 G/W is a 0.36 inch (9.2mm) height quaternary digits display.

This device utilizes Super Bright Yellow Green LED chip which are made from AlGaInP on a transparent GaAs substrate. The display has Gray face and White segment.

● **DEVICE**

PART NO Super Bright Yellow Green	DESCRIPTION
A364YG-L1 G/W	Common Anode
C364YG-L1 G/W	Common Cathode

RoHS Compliance



Pb free.





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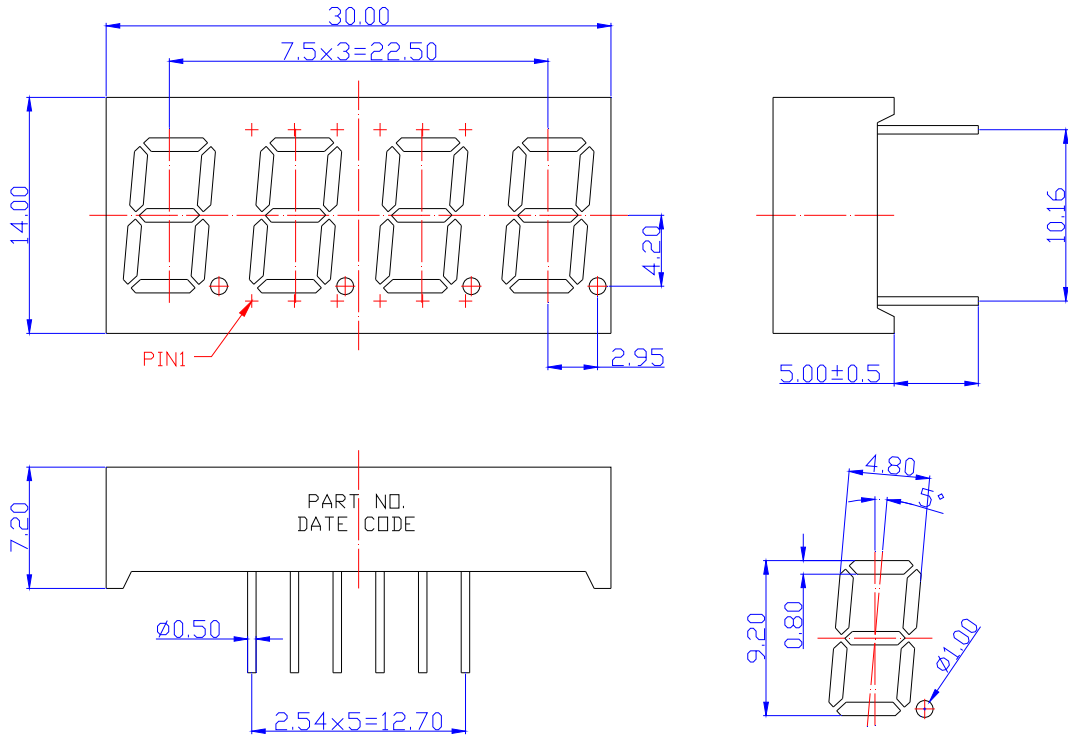
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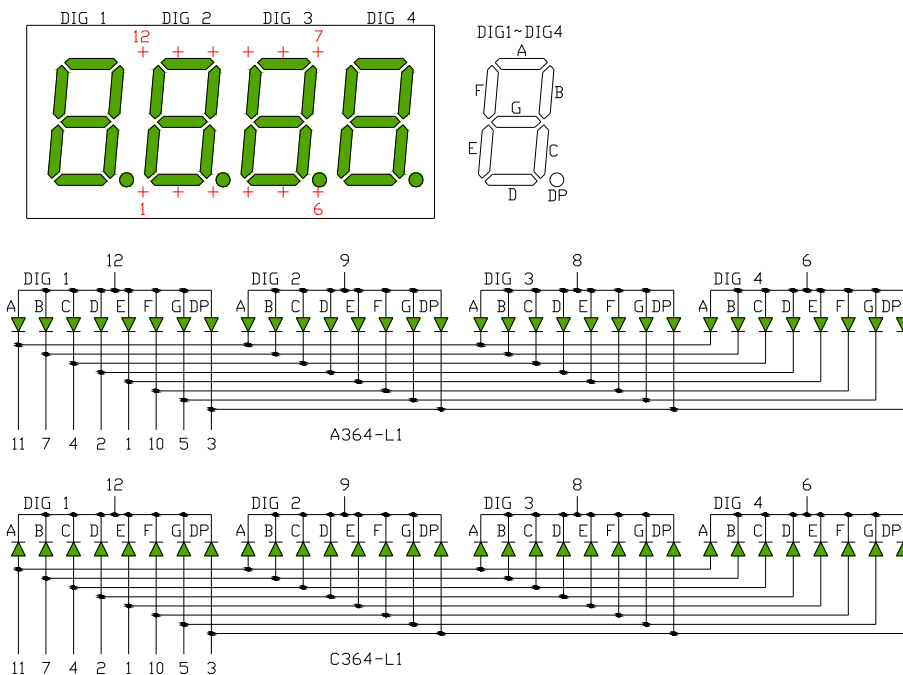
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● MECHANICAL DIMENSIONS



NOTES: All dimensions are in millimeters. Tolerances are ± 0.25 mm unless otherwise noted.

● TYPICAL INTERNAL EQUIVALENT CIRCUIT





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● **YG: SUPER BRIGHT YELLOW GREEN (AlGaInP/GaAs)**

ABSOLUTE MAXIMUM RATING AT Ta=25°C

Parameter	Symbol	Super Bright Yellow Green	Unit
Power dissipation per dice	P _{AD}	85	mW
Derating liner from 25°C per dice	-	0.42	mA / °C
Continuous forward current per dice	I _{AF}	30	mA
Peak current per dice (duty cycle 1/10, 1kHz)	I _{PF}	120	mA
Reverse voltage per dice	V _R	5	V
Operating temperature	T _{OPR}	-25 to +85	°C
Storage temperature	T _{STG}	-25 to +85	°C

ELECTRICAL - OPTICAL CHARACTERISTICS AT Ta=25°C

Characteristic	Symbol	Condition	Min.	Typ.	Max.	Unit
Forward voltage	V _F	I _F = 20mA	-	2.1	2.6	V
Reverse current	I _R	V _R = 5V	-	-	10	μA
Peak wavelength	λ _P	I _F = 20mA	-	573	-	nm
Dominant wavelength	λ _D	I _F = 20mA	-	571	-	nm
Luminous intensity	I _V	I _F = 20mA	-	20	-	mcd
Spectral radiation bandwidth	Δλ	I _F = 20mA	-	20	-	nm



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● YG: SUPER BRIGHT YELLOW GREEN (AlGaInP/GaAs) CURVE

Typical Electro-optical Characteristic Curves
(25 °C Free Air Temperature Unless Otherwise Specified)

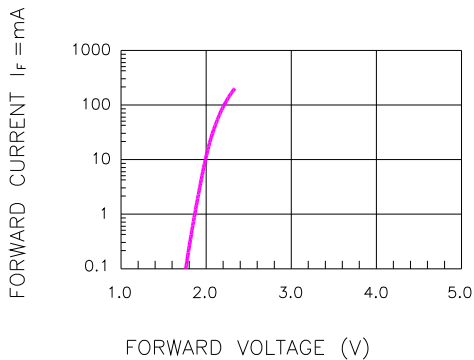


Fig.1 FORWARD CURRENT VS. FORWARD VOLTAGE

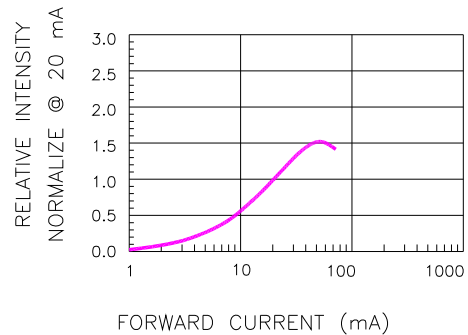


Fig.2 RELATIVE INTENSITY VS. FORWARD CURRENT

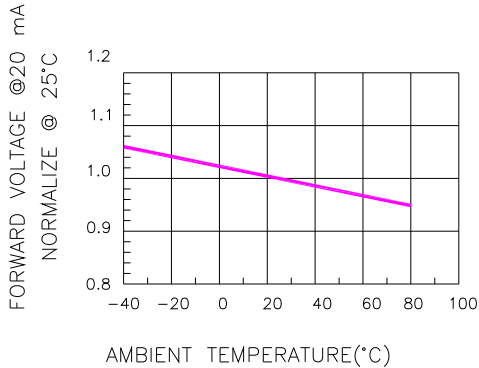


Fig.3 FORWARD VOLTAGE VS. TEMPERATURE

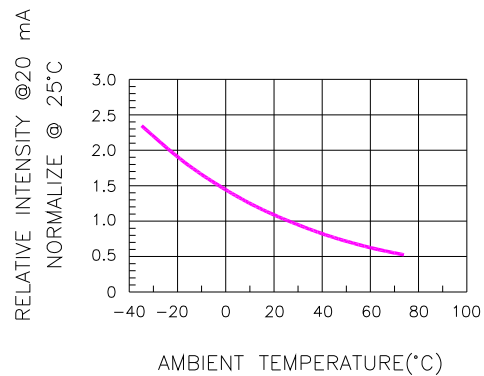


Fig.4 RELATIVE INTENSITY VS. TEMPERATURE

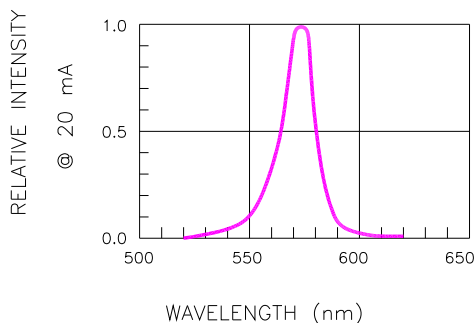


Fig.5 RELATIVE INTENSITY VS. WAVELENGTH

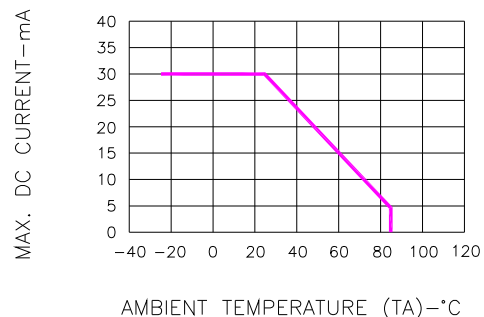


Fig.6 MAX. ALLOWABLE DC CURRENT VS. AMBIENT TEMPERATURE



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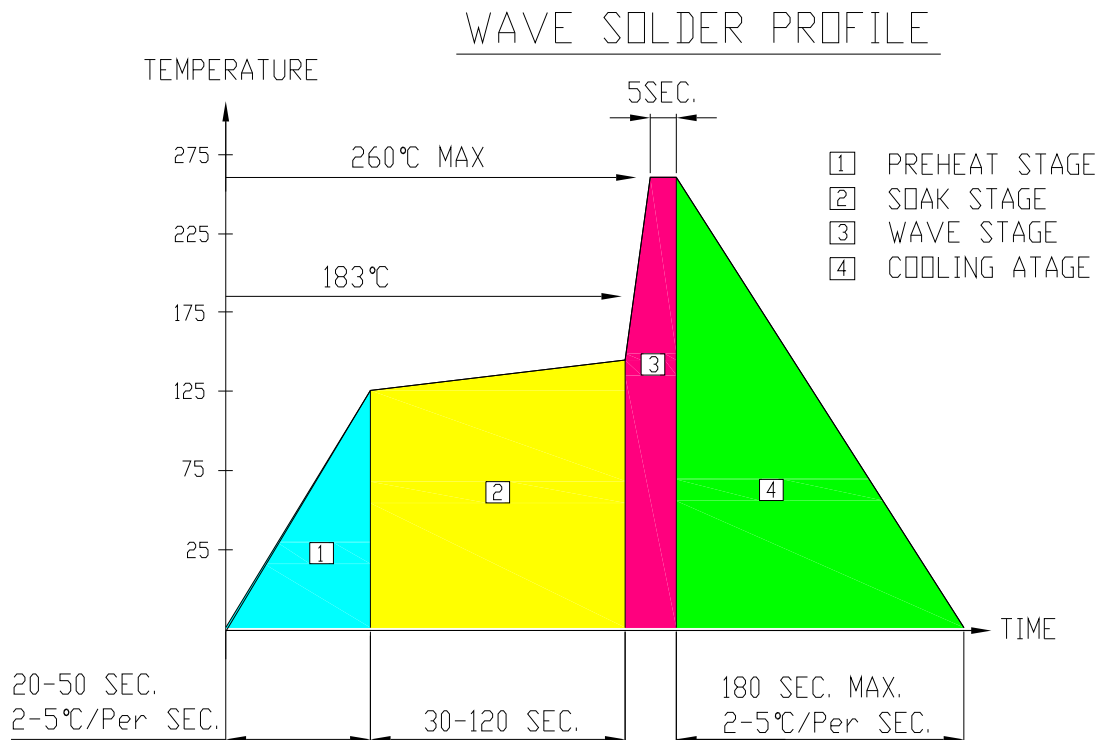
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● RECOMMEND SOLDERING PROFILE



● Note:

- Recommend pre-heat temperature of 105°C or less (as measured with a thermocouple attached to the LED pins) prior to immersion in the solder wave with a maximum solder bath temperature of 260°C
- Peak wave soldering temperature between 245°C ~ 225°C for 3 sec (5 sec max)
- No more than one wave soldering pass

● SOLDERING IRON

Basic spec is ≤ 4 sec when 260°C. If temperature is higher, time should be shorter (+10°C → 1 sec). Power dissipation of Iron should be smaller than 15W, and temperature should be controllable. Surface temperature of the device should be under 230°C.

● REWORK

Customer must finish rework within ≤ 3 sec under 350°C.
The head of soldering iron cannot touch copper foil.