



**American Opto Plus LED Corp.**  
**0.56" Case mold Type LED Display**  
**C/A561G-5 G/W**

● **EDIT HISTORY**

Version A: Feb. 14, 2012

New color data sheet.



# American Opto Plus LED Corp.

## 0.56" Case mold Type LED Display

### C/A561G-5 G/W

#### ● FEATURES

- 0.56 inch (14.20 mm) Digit Height.
- Excellent character appearance.
- Case mold type.
- Low Power Consumption.
- Gray face, White segment.
- RoHS compliant, Pb Free.

#### ● DESCRIPTION

The C/A561G-5 G/W is a 0.56 inch (14.20 mm) height single 7-segment display. This device utilizes Yellow Green LED chip which are made from GaP on a transparent GaP substrate. The display has Gray face, White segment.

#### ● DEVICE

PART NO	DESCRIPTION
Yellow Green	
A561G-5 G/W	Common Anode
C561G-5 G/W	Common Cathode

**RoHS Compliance**



**Pb free.**



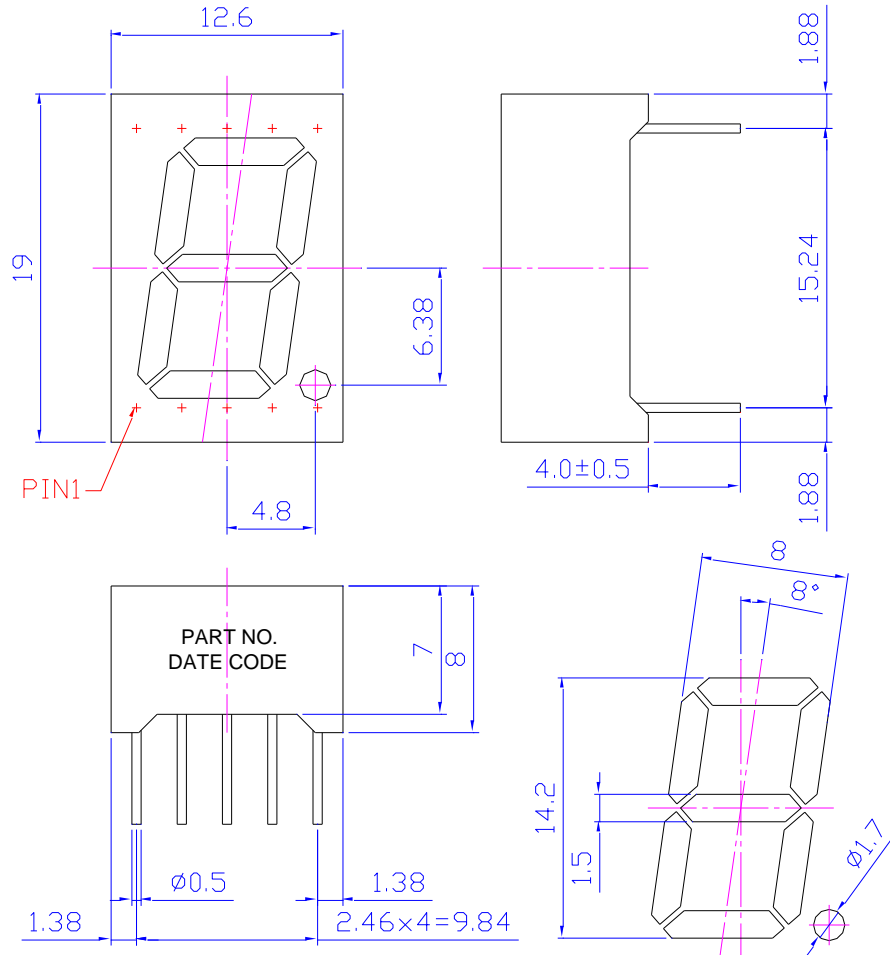


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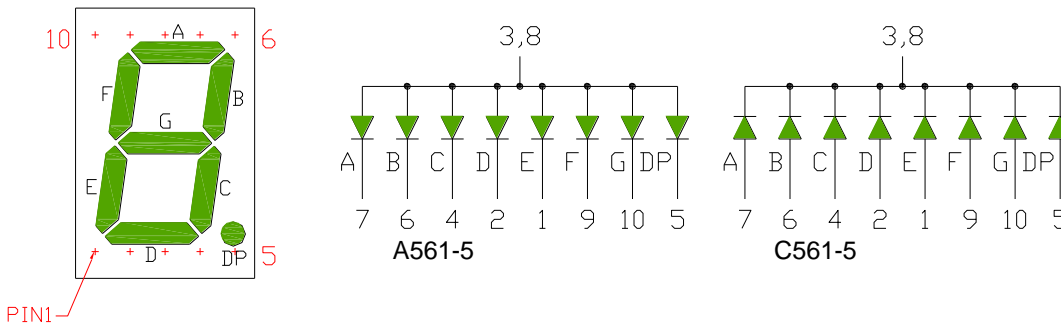
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#### ● MECHANICAL DIMENSIONS



#### ● TYPICAL INTERNAL EQUIVALENT CIRCUIT





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● **G: YELLOW GREEN (GaP/GaP)**

ABSOLUTE MAXIMUM RATING AT Ta=25°C

Parameter	Symbol	Yellow Green	Unit
Power dissipation per dice	P <sub>AD</sub>	70	mW
Derating Liner from 25°C per dice	-	0.33	mA/°C
Continuous forward current per dice	I <sub>AF</sub>	25	mA
Peak current per dice (duty cycle 1/10, 1kHz)	I <sub>PF</sub>	90	mA
Reverse voltage per dice	V <sub>R</sub>	5	V
Operating temperature	T <sub>OPR</sub>	-25 to +85	°C
Storage temperature	T <sub>STG</sub>	-25 to +85	°C

ELECTRICAL - OPTICAL CHARACTERISTICS AT Ta=25°C

Characteristic	Symbol	Condition	Min.	Type	Max.	Unit
Forward voltage	V <sub>F</sub>	I <sub>F</sub> =20mA	1.8	2.3	2.6	V
Reverse current	I <sub>R</sub>	V <sub>R</sub> =5V	-	-	10	μA
Peak wavelength	λ <sub>P</sub>	I <sub>F</sub> =20mA	-	568	-	nm
Dominant wavelength	λ <sub>d</sub>	I <sub>F</sub> =20mA	569	570	574	nm
Luminous intensity	I <sub>V</sub>	I <sub>F</sub> =20mA	-	9	-	mcd
Spectral radiation bandwidth	Δλ	I <sub>F</sub> =20mA	-	30	-	nm



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#### ● G: YELLOW GREEN (GaP/GaP) CURVE

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

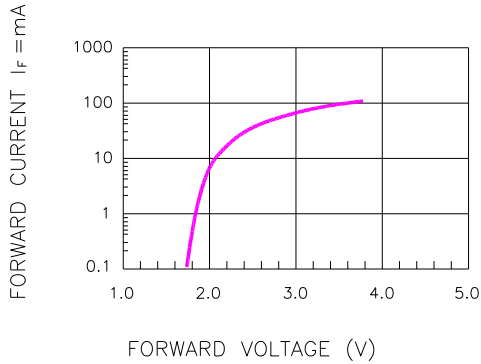


Fig.1 FORWARD CURRENT VS. FORWARD VOLTAGE

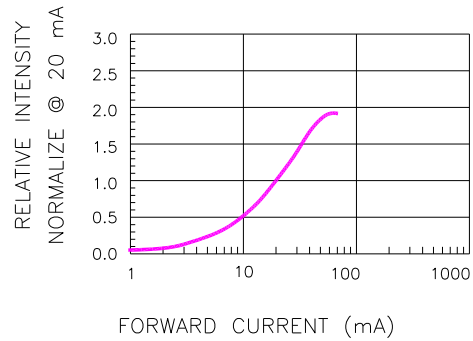


Fig.2 RELATIVE INTENSITY VS. FORWARD CURRENT

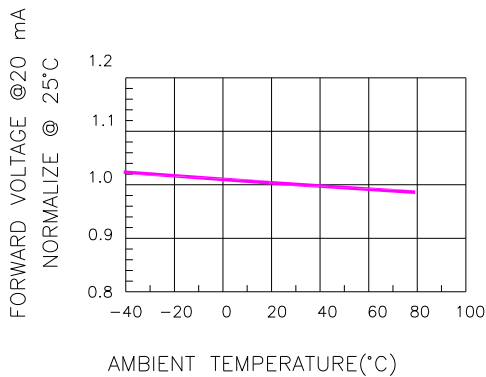


Fig.3 FORWARD VOLTAGE VS. TEMPERATURE

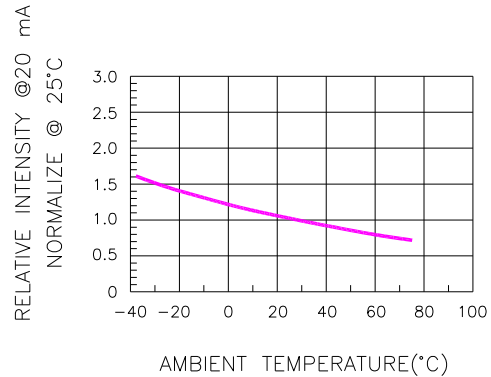


Fig.4 RELATIVE INTENSITY VS. TEMPERATURE

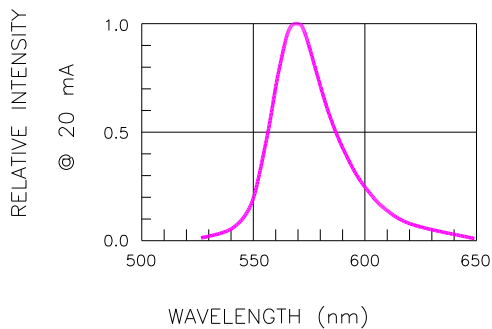


Fig.5 RELATIVE INTENSITY VS. WAVELENGTH

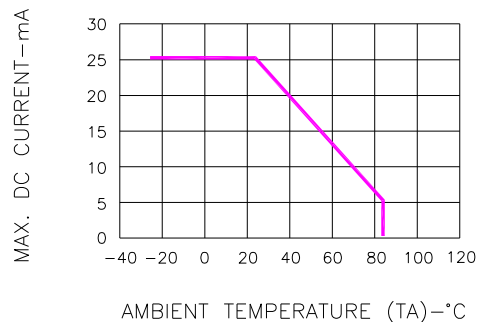


Fig.6 MAX. ALLOWABLE DC CURRENT VS. AMBIENT TEMPERATURE



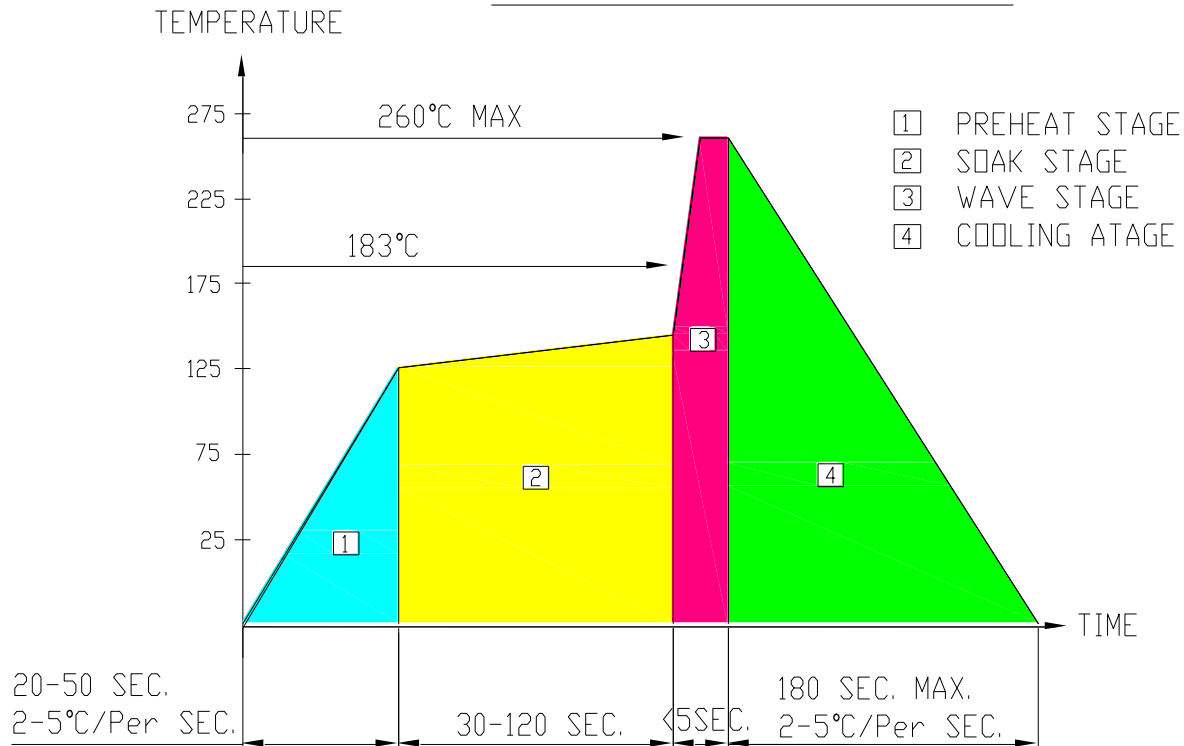
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#### ● RECOMMEND SOLDERING PROFILE

#### WAVE SOLDER PROFILE



#### ● SOLDERING IRON

Basic spec is  $\leq 4$  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  $\leq 4$  sec under 245°C.