



**Opto Plus LED Corp.**  
**0.4" Case Mold Type LED Display**  
**OPD-S4030G-BW**  
**OPD-S4031G-BW**

● **FEATURES**

- 0.4 inch (10.16 mm) Digit Height.
- Low current operation.
- Case mold type.
- Black face, White segment.
- RoHS compliant, Pb Free.

● **DESCRIPTION**

The OPD-S4030G-BW & OPD-S4031G-BW are 0.4 inch (10.16 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 Black face, White segment.

● **DEVICE**

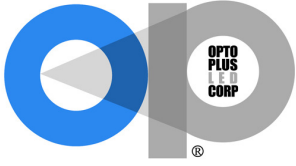
<b>PART NO</b> Yellow Green	<b>DESCRIPTION</b>
OPD-S4030G-BW	Common Anode
OPD-S4031G-BW	Common Cathode

**RoHS Compliance**



**Pb free.**





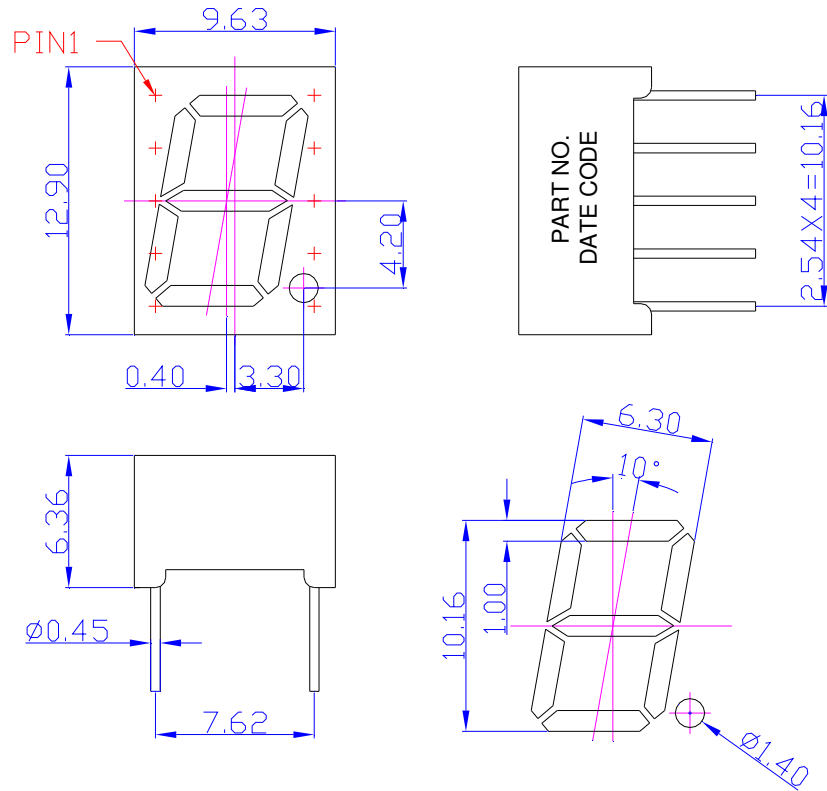
# Opto Plus LED Corp.

## 0.4" Case Mold Type LED Display

### OPD-S4030G-BW

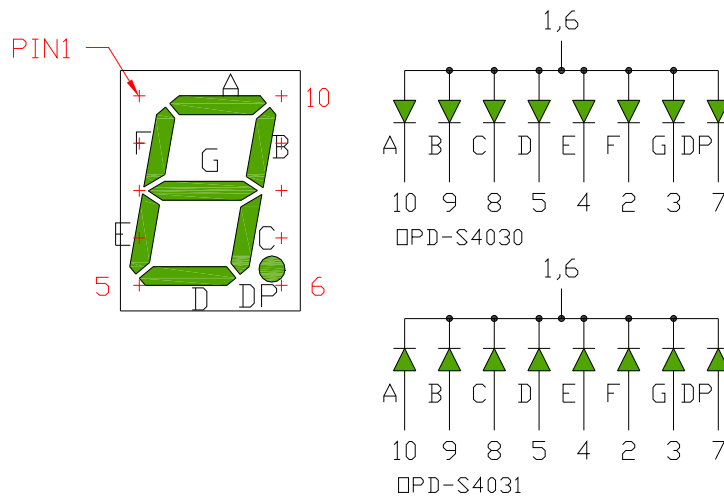
### OPD-S4031G-BW

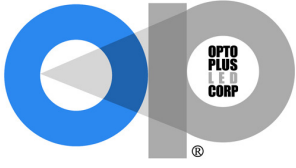
#### ● MECHANICAL DIMENSIONS



NOTES: Dimension is in millimeters. Tolerance is  $\pm 0.25$  mm unless otherwise noted.

#### ● TYPICAL INTERNAL EQUIVALENT CIRCUIT





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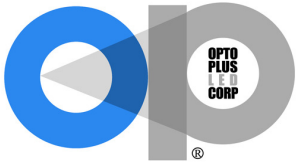
● **G: YELLOW GREEN (GaP/GaP)**

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	-	2.0	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	-	570	-	nm
Luminous intensity	I <sub>V</sub>	I <sub>F</sub> = 20mA	-	5	-	mcd
Spectral radiation bandwidth	Δλ	I <sub>F</sub> = 20mA	-	30	-	nm



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## 0.4" Case Mold Type LED Display

### OPD-S4030G-BW

### OPD-S4031G-BW

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

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

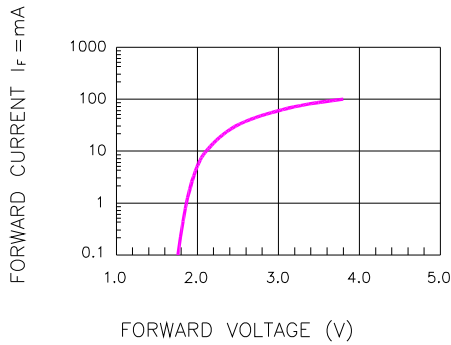


Fig.1 FORWARD CURRENT VS. FORWARD VOLTAGE

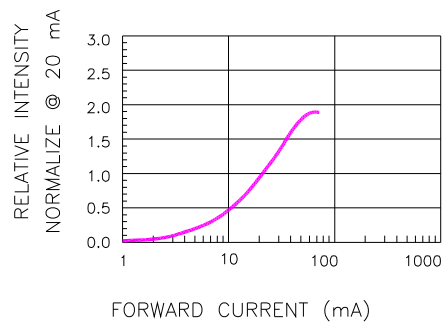


Fig.2 RELATIVE INTENSITY VS. FORWARD CURRENT

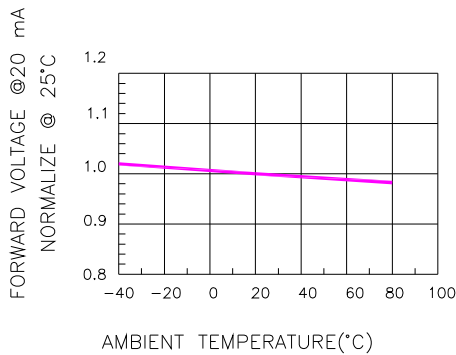


Fig.3 FORWARD VOLTAGE VS. TEMPERATURE

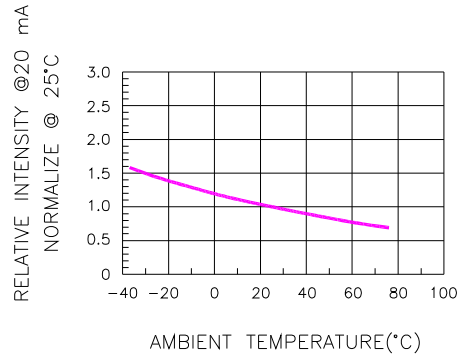


Fig.4 RELATIVE INTENSITY VS. TEMPERATURE

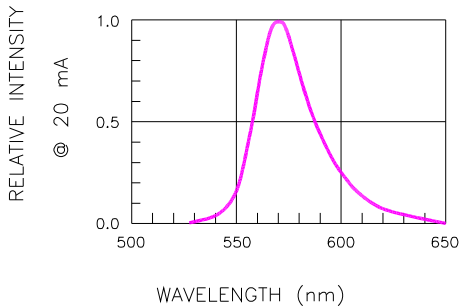


Fig.5 RELATIVE INTENSITY VS. WAVELENGTH

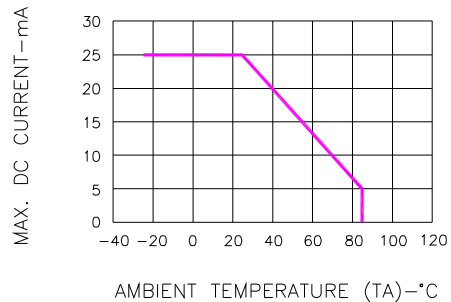
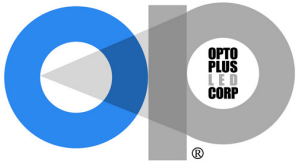
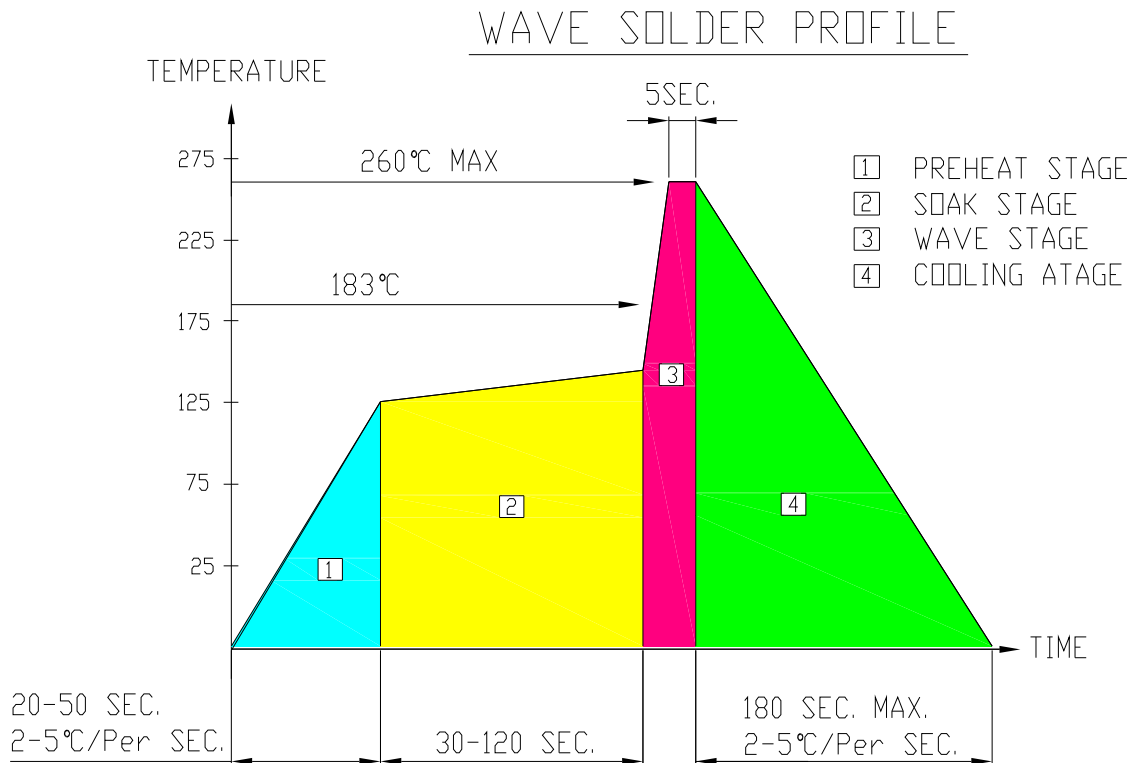


Fig.6 MAX. ALLOWABLE DC CURRENT VS. AMBIENT TEMPERATURE



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● **RECOMMEND SOLDERING PROFILE**



● **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.

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