



Spec. No.	PS-ND-0712
Rev.	A

PRODUCT SPECIFICATION

Model No : CSS-2310G/CSS-2311G

Descriptions:

- 2.3 Inch Single Digit Alphanumeric Display
- Emitting Color: Yellow Green



CUSTOMER APPROVED	APPROVED BY	CHECKED BY	PREPARED BY
SIGNATURES			

CHINA SEMICONDUCTOR CORPORATION

Address:2FL. NO.909,Chung-Cheng Road,
Chung-Ho City Taipei Hsien,Taiwan.

Tel:886-2-2223-9696

Fax:886-2-2223-9377

OPTO PLUS TECHNOLOGIES CO.,LTD

Address:696 Shun jiang Rd.,Ji Shan St.Shaoxing,
ZheJiang,China

Tel:86-0575-8623888

Fax:86-0575-8623112

<http://www.csctw.com.tw>



Spec. No.	PS-ND-0712
Rev.	A

Model No : CSS-2310G/2311G

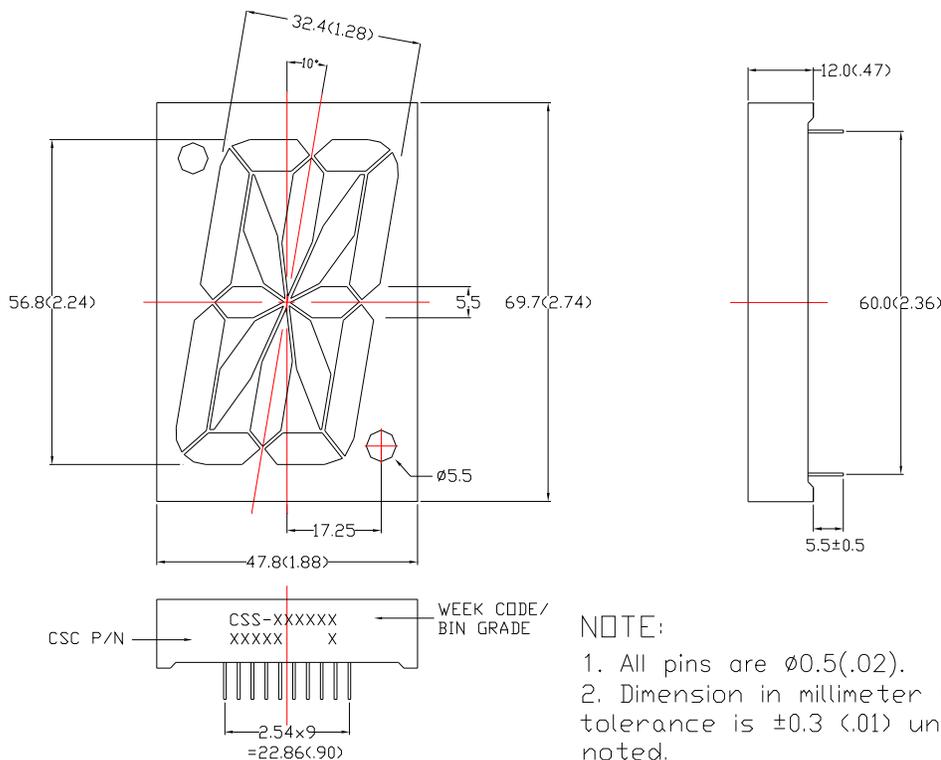
Features -

1. 2.24 inch (56.8 mm) digit height.
2. Case mold type.
3. RoHs compliant.
4. Low power consumption.
5. Easy mounting on P.C. board or socket.

Device Selection Guide -

Part No.	Chip		Description
	Material	Emitted Color	
CSS-2310G	GaP	Yellow Green	Common Anode
CSS-2311G			Common Cathode

Package Dimensions -



NOTE:

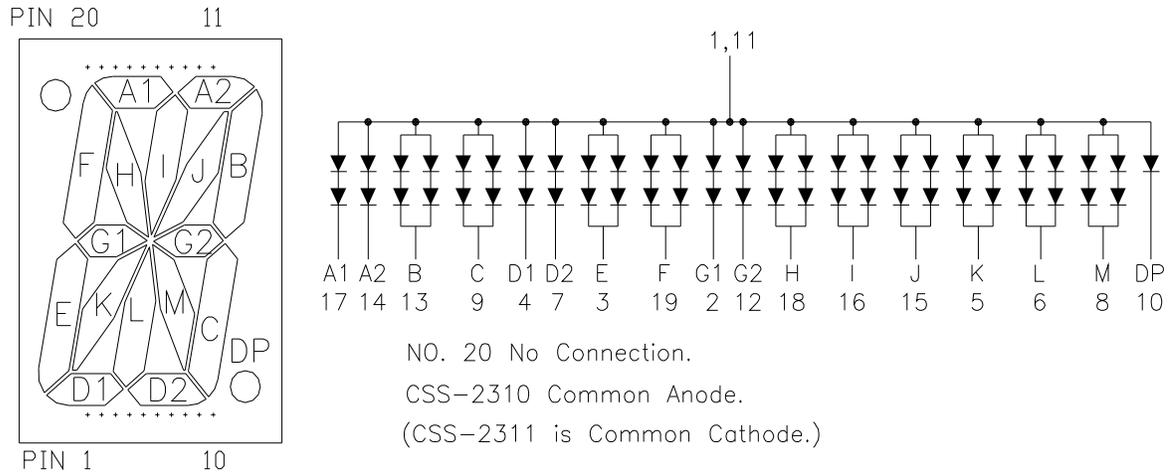
1. All pins are $\phi 0.5$ (.02).
2. Dimension in millimeter (inch), and tolerance is ± 0.3 (.01) unless otherwise noted.



Spec. No.	PS-ND-0712
Rev.	A

Model No : CSS-2310G/2311G

Internal Circuit Diagrams -



Absolute Maximum Rating -

(Ta=25°C)

Parameter	Symbol	Rating	Unit
Power Dissipation Per Dice	Pd	70	mW
Continuous Forward Current Per Dice	IAF	25	mA
Peak Current Per Dice (Duty Cycle 1/10, 1kHz)	IPF	90	mA
Derating Linear From 25°C Per Dice	-	0.33	mA/°C
Reverse Voltage Per Dice	VR	5	V
Operating Temperature	Topr	-25 ~ +85	°C
Storage Temperature	Tstg	-25 ~ +85	°C
Solder temperature 1/16 inch below seating plane for 3 seconds at 260°C			



Spec. No.	PS-ND-0712
Rev.	A

Model No : CSS-2310G/2311G
Electro-optical Characteristics -

(Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
Forward Voltage Per Segment (DP)	VF	-	4.2(2.1)	5.6(2.8)	V	IF=20mA
Luminous Intensity Per Segment	Iv	-	10	-	mcd	IF=10mA
Peak Emission Wavelength	λ_p	-	570	-	nm	IF=20mA
Spectrum Radiation Bandwidth	$\Delta \lambda$	-	30	-	nm	IF=20mA
Reverse Current	IR	-	-	100	μA	VR=10V
Luminous Intensity Matching Ratio	IV-m	-	-	2 : 1	-	IF=20mA



Spec. No.	PS-ND-0712
Rev.	A

Model No : CSS-2310G/2311G

Typical Electrical / Optical Characteristics Curves -

(Ta = 25°C Unless Otherwise Noted)

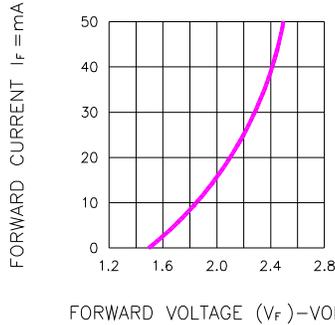


Fig.1 FORWARD CURRENT VS. FORWARD VOLTAGE

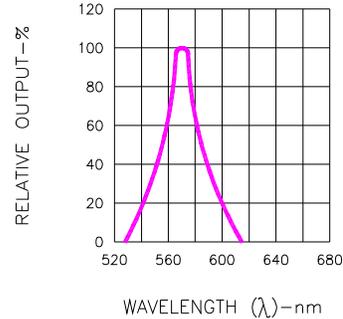


Fig.2 SPECTRAL RESPONSE

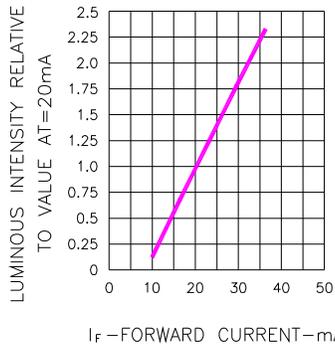


Fig.3 RELATIVE LUMINOUS INTENSITY VS. FORWARD CURRENT

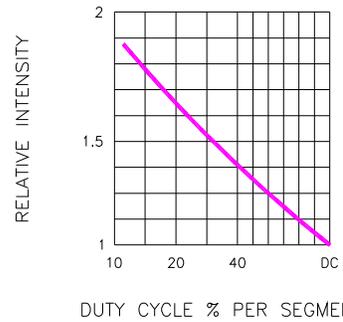


Fig.5 LUMINOUS INTENSITY VS. DUTY CYCLE

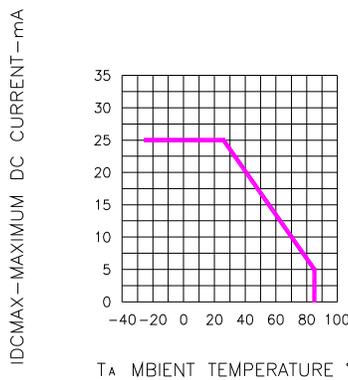


Fig.4 MAXIMUM ALLOWABLE DC CURRENT PER SEGMENT VS. A FUNCTION OF AMBIENT TEMPERATURE

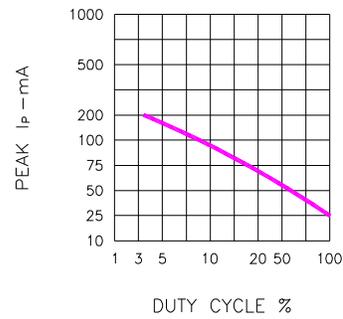


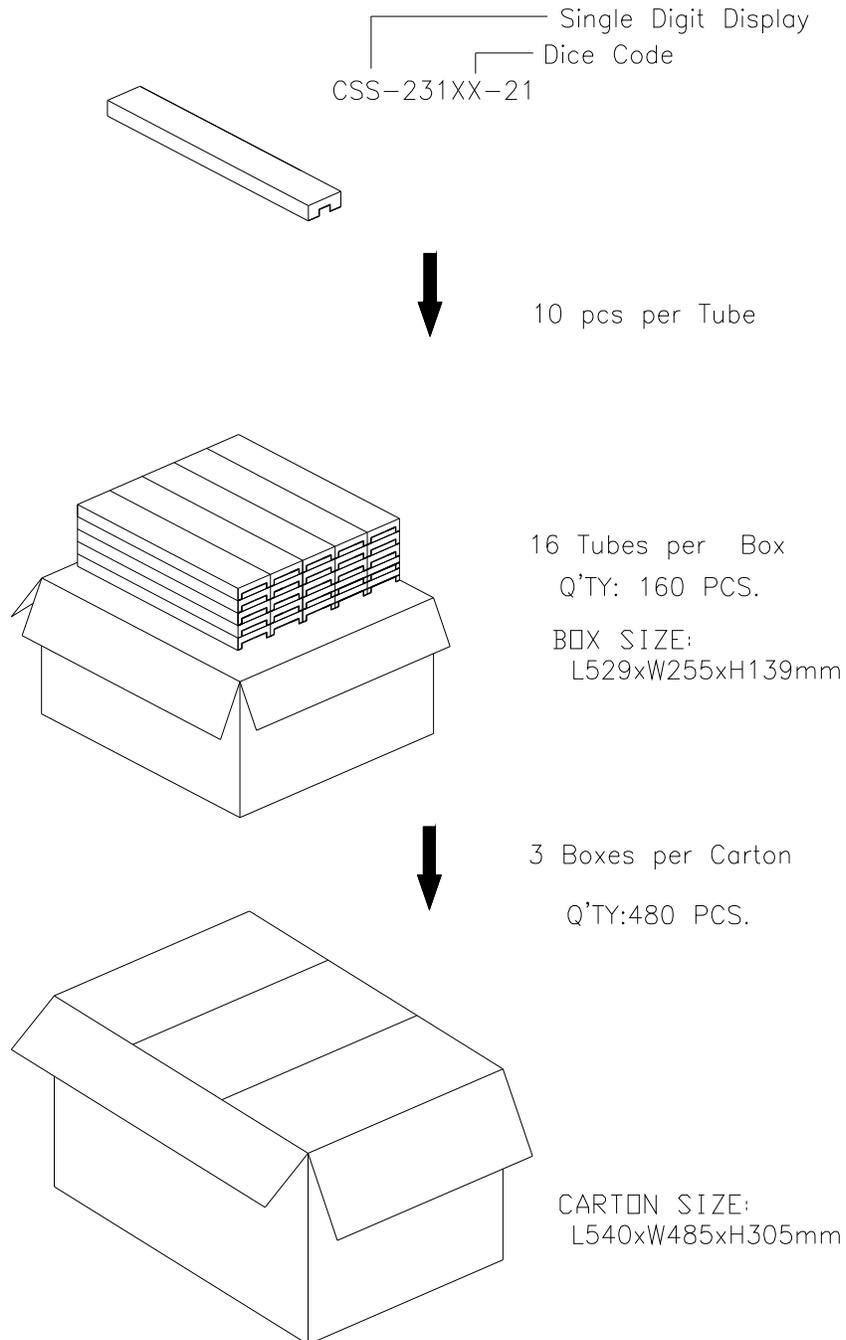
Fig.6 MAX PEAK CURRENT VS. DUTY CYCLE % (REFRESH RATE f=1 KHz)



Spec. No.	0
Rev.	A

Model No : CSS-2310G/2311G

■ Package Dimensions



Note: The specifications may be changed without prior notice. Please contact us for the latest specifications.