

PRODUCT SPECIFICATION

Model No : CSS-1814G/1815G

Descriptions:

- 1.80 Inch Single Digit Display
- Emitting Color : Yellow Green



CUSTOMER APPROVED	APPROVED BY	CHECKED BY	PREPARED BY
SIGNATURES			陳新強

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:86-0575-88623888

Fax:86-0575-88623112

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

Model No : CSS-1814G/1815G

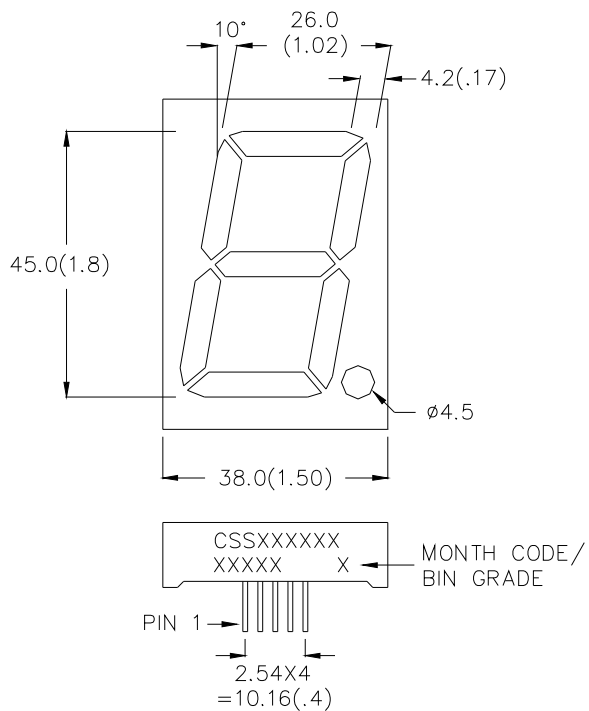
■ Features -

1. 1.80 inch (45.0mm) 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-1814G	GaP	Yellow Green	Common Anode
CSS-1815G	GaP	Yellow Green	Common Cathode

■ Mechanical Dimensions -

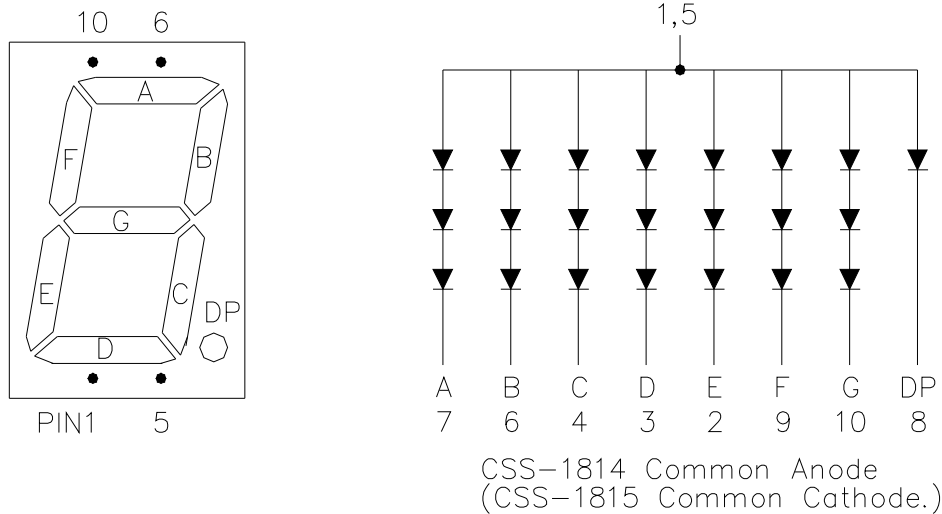


NOTE:

- 1 All pins are $\phi 0.6(.02)$.
- 2 Dimension in millimeter (inch), and tolerance is $\pm 0.25 (.01)$ unless otherwise noted.

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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
Continuous Forward Current Per Dice	-	0.33	mA/°C
Reverse Voltage Per Dice	VR	5	V
Operating Temperature	Topr	-35 ~ +85	°C
Storage Temperature	Tstg	-35 ~ +85	°C
Solder temperature 1/16 inch below seating plane for 3 seconds at 260			

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■ Electro-optical Characteristics -

(Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
Forward Voltage Per Segment(DP)	VF	-	6.3(2.1)	8.4(2.8)	V	IF=20mA
Luminous Intensity Per Segment	Iv	-	15	-	mcd	IF=10mA
Peak Emission Wavelength	λP	-	568	-	nm	IF=20mA
Dominant Wavelength	λd	-	572	-	nm	IF=20mA
Spectrum Radiation Bandwidth	$\Delta \lambda$	-	30	-	nm	IF=20mA
Reverse Current	IR	-	-	100	μA	VR=12V
Luminous Intensity Matching Ratio	IV-m	-	-	2:1	-	IF=10mA



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■ Typical Electrical / Optical Characteristics Curves -

(Ta = 25°C Unless Otherwise Noted)

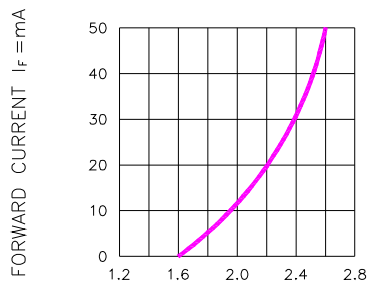


Fig.1 FORWARD CURRENT VS. FORWARD VOLTAGE

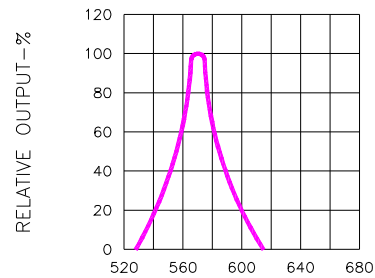


Fig.2 SPECTRAL RESPONSE

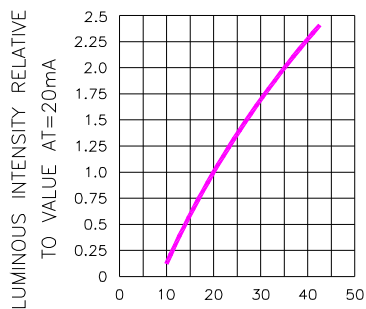


Fig.3 RELATIVE LUMINOUS INTENSITY VS. FORWARD CURRENT

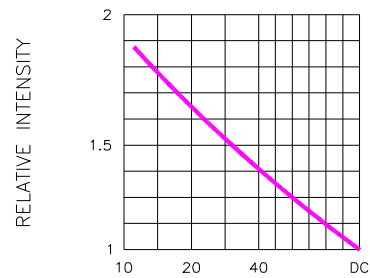
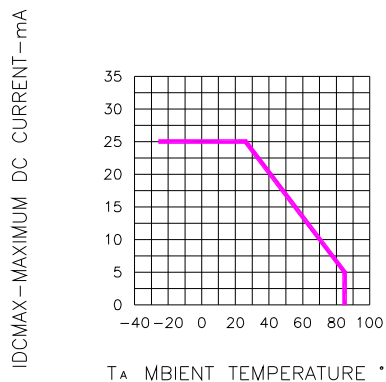
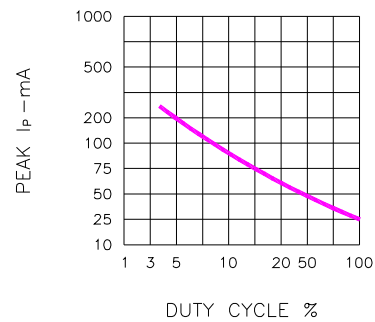
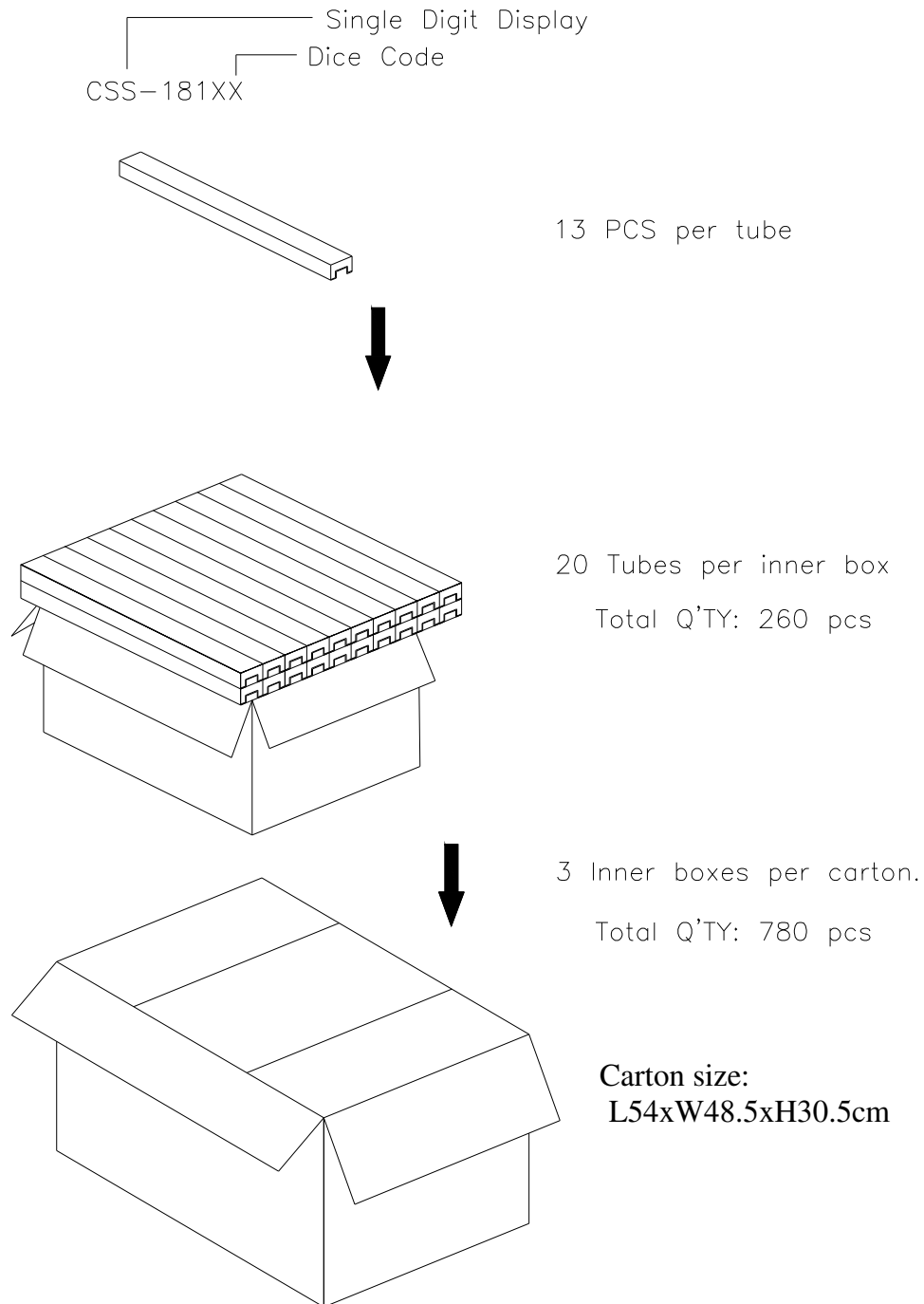
Fig.5 LUMINOUS INTENSITY VS. DUTY CYCLE
(AVERAGE If = 10mA)

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)

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Package Dimensions



Note: The specifications are subject to change without notice. Please contact us for updated information
<http://www.csctw.com.tw>