



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

PRODUCT SPECIFICATION

Model No : CSS-1116B7/CSS-1117B7

Descriptions:

- 1.0 Inch Single Digit Alphanumeric Display
- Emitting Color: Super Bright Blue



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



Model No : CSS-1116B7/1117B7

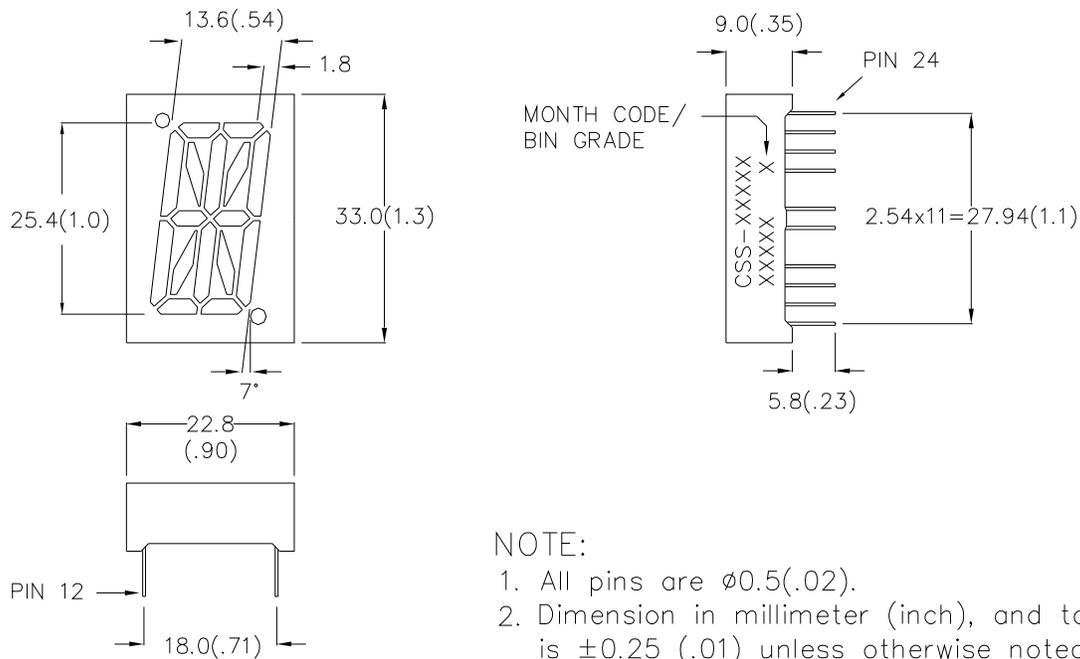
■ Features -

1. 1.00 inch (25.4 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-1116B7	InGaN	Super Bright Blue	Common Anode
CSS-1117B7			Common Cathode

■ Package Dimensions -

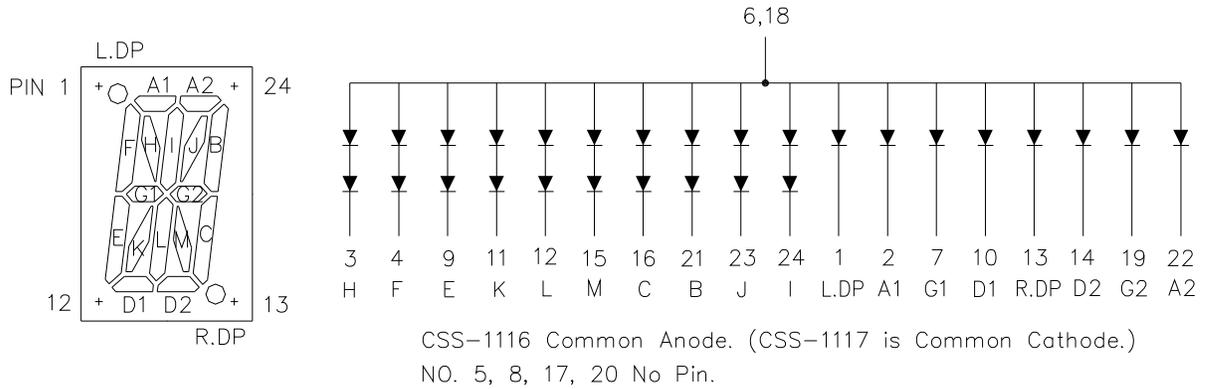




Spec. No.	PS-ND-0712
Rev.	A

Model No : CSS-1116B7/1117B7

Internal Circuit Diagrams -



Absolute Maximum Rating -

(Ta=25°C)

Parameter	Symbol	Rating	Unit
Power Dissipation Per Dice	Pd	120	mW
Continuous Forward Current Per Dice	IAF	30	mA
Peak Current Per Dice (duty cycle 1/10, 1kHz)	IPF	100	mA
Derating Linear From 25 °C Per Dice	-	0.4	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			



Model No : CSS-1116B7/1117B7

■ **Electro-optical Characteristics -**

(Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
Forward Voltage Two Dice (One Dice)	VF	-	6.4(3.2)	8.0(4.0)	V	IF=20mA
Luminous Intensity Per Segment	Iv	-	25	-	mcd	IF=10mA
Dominant Wavelength	λ_d	-	470	-	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-1116B7/1117B7

Typical Electrical / Optical Characteristics Curves -

(Ta = 25°C Unless Otherwise Noted)

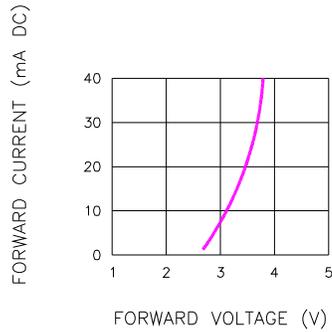


Fig.1 FORWARD CURRENT VS. FORWARD VOLTAGE

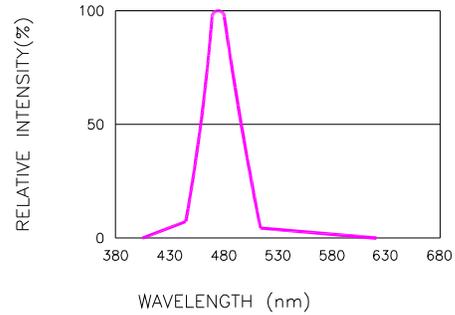


Fig.2 RELATIVE INTENSITY VS. WAVELENGTH

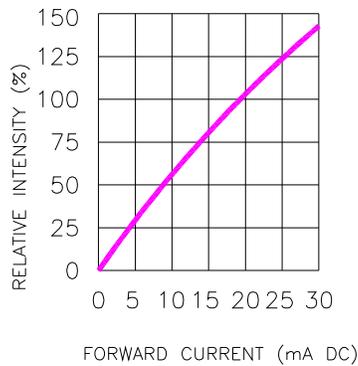


Fig.3 RELATIVE INTENSITY VS. FORWARD CURRENT

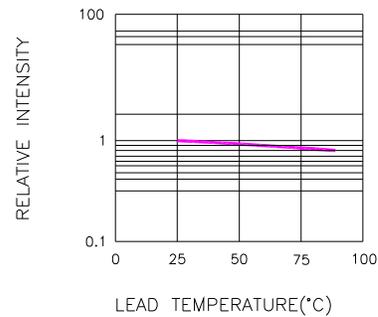


Fig.4 RELATIVE INTENSITY VS. LEAD TEMPERATURE
(PULSED 20 mA; 300us PULSE, 10ms PERIOD)

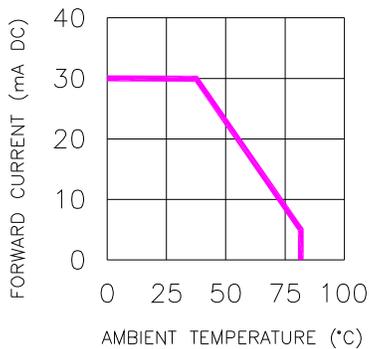


Fig.5 FORWARD CURRENT VS. AMBIENT TEMPERATURE

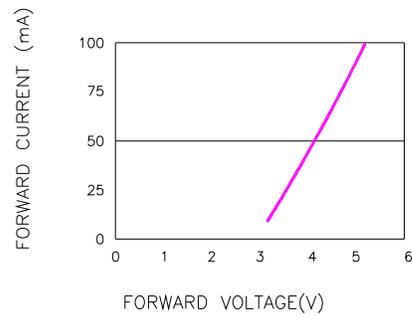


Fig.6 PEAK FORWARD VOLTAGE VS. FORWARD (100us TEST PULSE, 1% DUTY CYCLE)

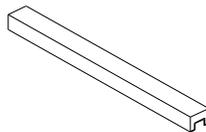


Spec. No.	PS-ND-0712
Rev.	A

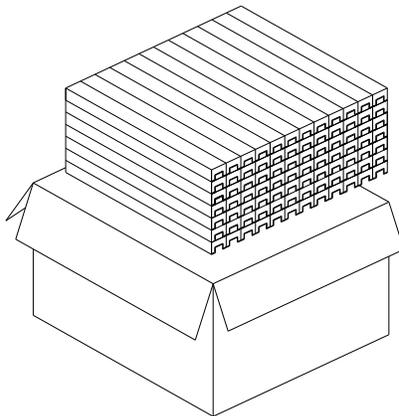
Model No : CSS-1116B7/1117B7

Package Dimensions

S = Single Digit Displays
 Dice Code
 CSS-1116X-21
 Segment Resin Color Code. 1=White Segment.
 Surface silk Screen Ink Code. 2=Black (1=Gray).



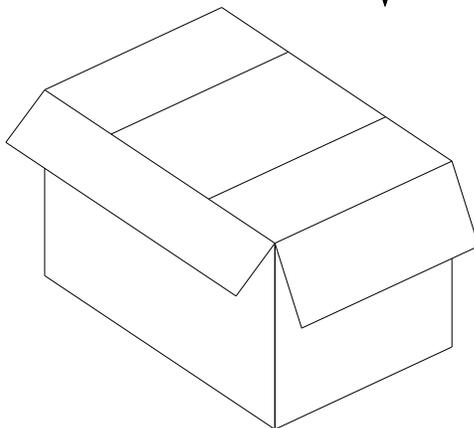
1 TUBE From Box = 15 PCS



1 BOX= 50 TUBE From Box
Q'TY: 750 PCS.



1 CARTON = 3 BOX.
Q'TY: 2250 PCS.



CARTON SIZE:
L540xW485xH305mm

Note: The specifications are subject to change without notice. Please contact us for updated information.