



PRODUCT SPECIFICATION

Model No : CSS-1018B7/1019B7

Descriptions:

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



CUSTOMER APPROVED	APPROVED BY	CHECKED BY	PREPARED BY
SIGNATURES			陳新強

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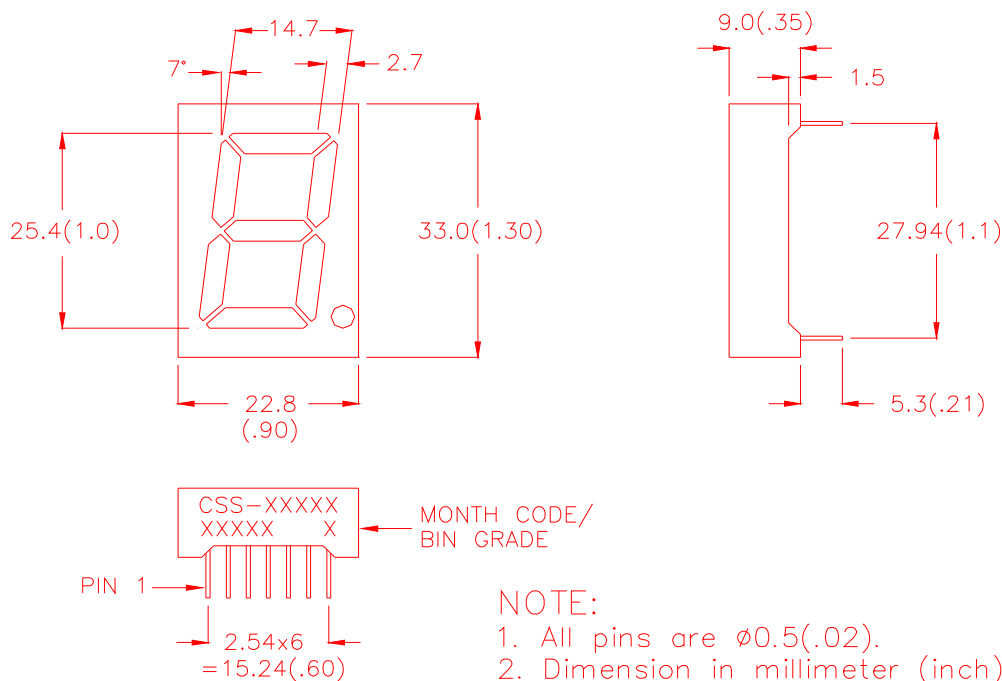
Spec. No.	PS-ND-0711
Rev.	A

Model No : CSS-1018B7/1019B7
Features -

1. 1.0 inch (25.4mm) digit height.
2. Case mold type.
3. RoHs compliant.
4. Low power consumption.
5. ESD>1KV(HBM)
6. Easy mounting on P.C. board or socket.

Device Selection Guide -

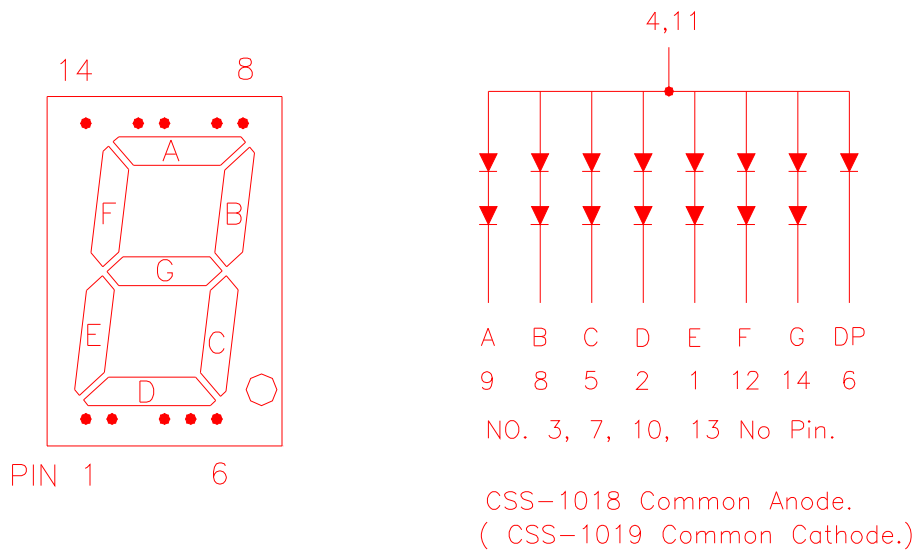
Part No.	Chip		Description
	Material	Emitted Color	
CSS-1018B7	InGaN	Super Bright Blue	Common Anode
CSS-1019B7	InGaN	Super Bright Blue	Common Cathode

Mechanical Dimensions -

NOTE:

1. All pins are $\phi 0.5(.02)$.
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	120	mW
Continuous Forward Current Per Dice	IAF	30	mA
Peak Current Per Dice (Duty cycle 1/10, 1KHz)	IPF	100	mA
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 °C			



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Electro-optical Characteristics -

(Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
Forward Voltage Per Segment (DP)	VF	-	7(3.5)	8(4.0)	V	IF=20mA
Luminous Intensity Per Segment	Iv	-	30	-	mcd	
Peak Emission Wavelength	λP	-	470	-	nm	
Spectrum Radiation Bandwidth	$\Delta \lambda$	-	20	-	nm	
Reverse Current	IR	-	-	50	μA	VR=10V



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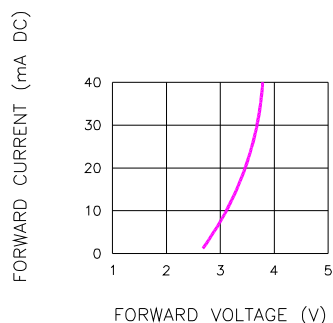
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Typical Electrical / Optical Characteristics Curves -
(Ta = 25°C Unless Otherwise Noted)


Fig.1 FORWARD CURRENT VS. FORWARD VOLTAGE

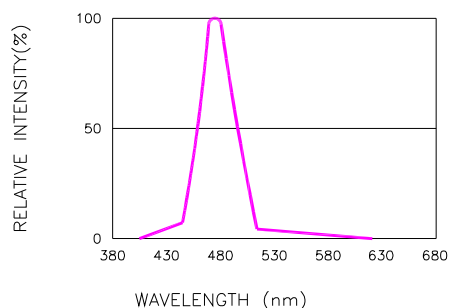
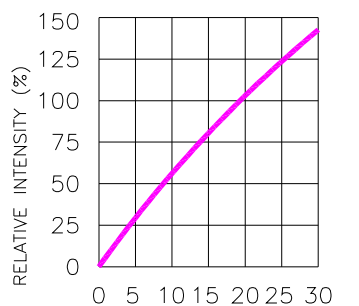
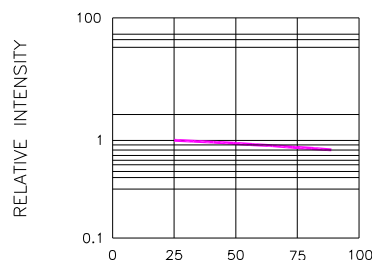
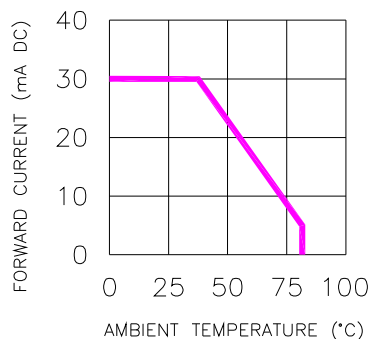
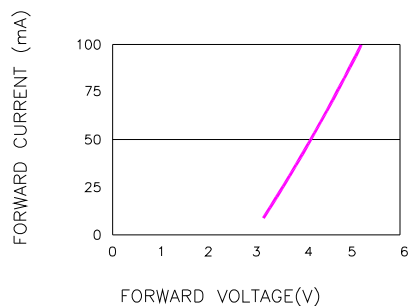


Fig.2 RELATIVE INTENSITY VS. WAVELENGTH

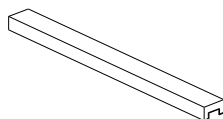

 Fig.3 RELATIVE INTENSITY
VS. FORWARD CURRENT

 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)



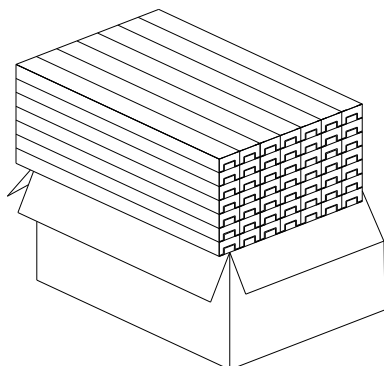
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Model No: CSS-1018B7/1019B7**■ Package Dimensions**

Single Digit Display
Dice Code
CSS-101XX

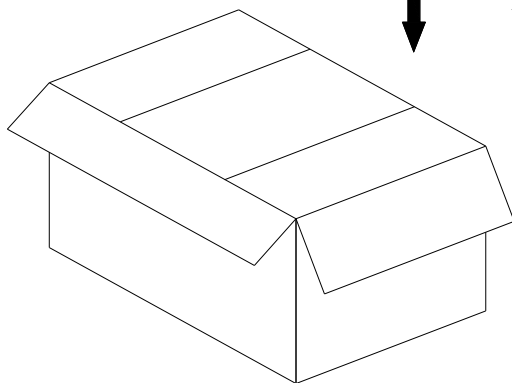


20 PCS per tube



49 Tubes per inner box

Total Q'TY: 980 pcs



3 Inner boxes per carton.

Total Q'TY: 2940 pcs

Box size:
L54xW48.5xH30.5cm

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