



PRODUCT SPECIFICATION

Model No : CSQ-2842B7/2841B7

Descriptions:

- 0.28 Inch Quad Digit Display
- CSQ-2842: Common Anode
- CSQ-2841: Common Cathode
- Emitting Color: Super Bright Blue



CUSTOMER APPROVED SIGNATURES	APPROVED BY	CHECKED BY	PREPARED BY

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



Model No : CSQ-2842/2841B7

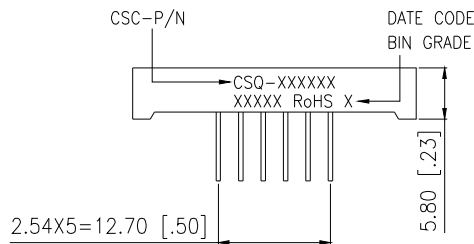
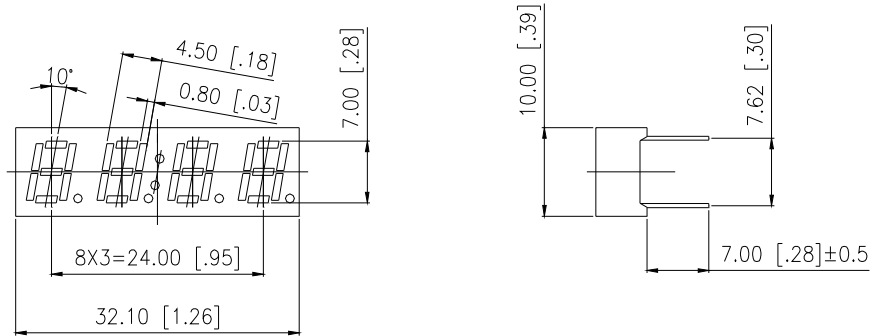
Features -

1. 0.28 inch (7.0mm) 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	
CSQ-2842B7	InGaN	Super Bright Blue	Common Anode
CSQ-2841B7	InGaN	Super Bright Blue	Common Cathode

Package Dimensions -



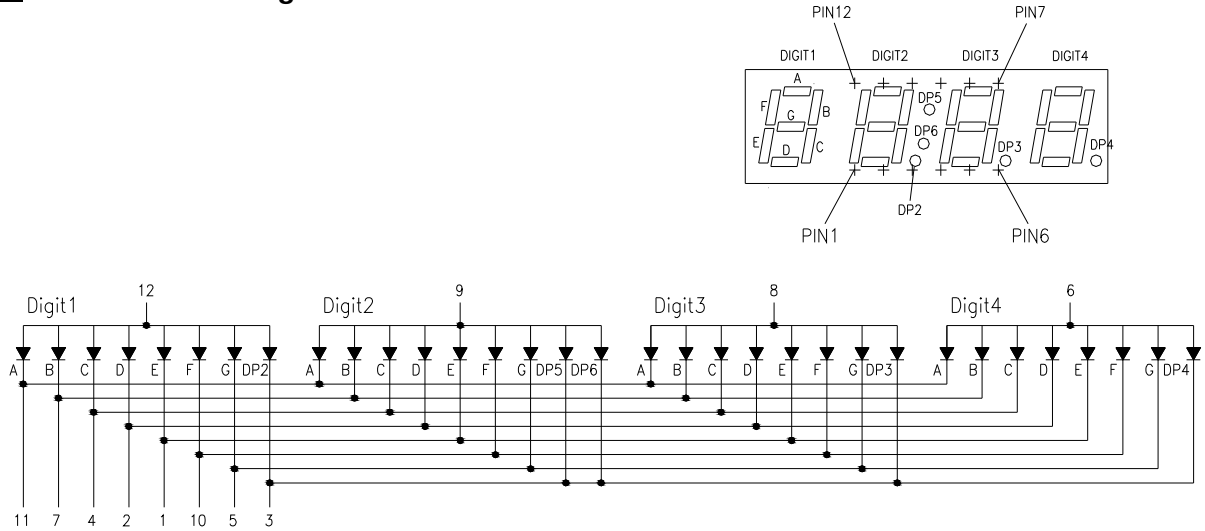
NOTE:

1. All pins are $\varnothing 0.45$ [.02"].
2. Dimension in millimeter (inch), and tolerance is ± 0.25 [.01] unless otherwise noted.



Model No : CSQ-2842/2841B7

Internal Circuit Diagrams -



CSQ-2842 Common Anode
(CSQ-2841 Common Cathode)

Absolute Maximum Rating -

(Ta=25°C)

Parameter	Symbol	Rating	Unit
Power Dissipation Per Dice	PAD	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 Temp.	Topr	-35 ~ +85	°C
Storage Temp.	Tstg	-35 ~ +85	°C
Solder temperature 1/16 inch below seating plane for 3 seconds at 260°C			



Model No : CSQ-2842/2841B7

■ Electro-optical Characteristics -

(Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
Forward Voltage Per Segment	V_F	-	3.5	4	V	$I_F=20mA$
Luminous Intensity Per Segment	I_v	5	12	-	mcd	$I_F=10mA$
Peak Emission Wavelength	λ_p	-	468	-	nm	$I_F=20mA$
Dominant Wavelength	λ_d	-	470	-	nm	$I_F=20mA$
Spectrum Radiation Bandwidth	$\Delta \lambda$	-	30	-	nm	$I_F=20mA$
Reverse Current	I_R	-	-	100	μA	$V_R=5V$
Luminous Intensity Matching Ratio	I_V-m	-	-	2:1	-	$I_F=10mA$



Model No: CSQ-2842/2841B7

■ Typical Electrical / Optical Characteristics Curves -

(Ta = 25°C Unless Otherwise Noted)

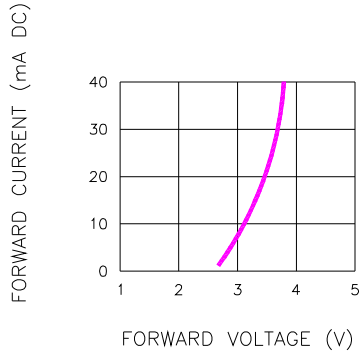


Fig.1 FORWARD CURRENT VS. FORWARD VOLTAGE

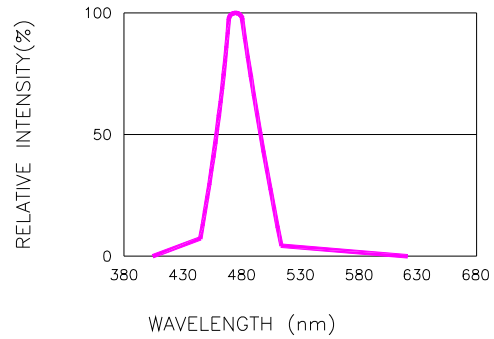


Fig.2 RELATIVE INTENSITY VS. WAVELENGTH

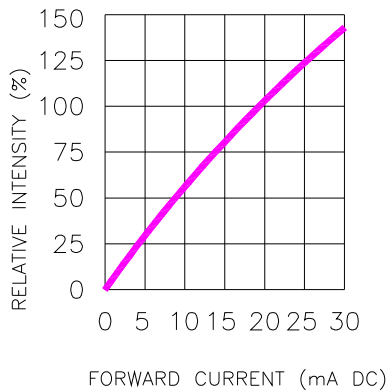


Fig.3 RELATIVE INTENSITY VS. FORWARD CURRENT

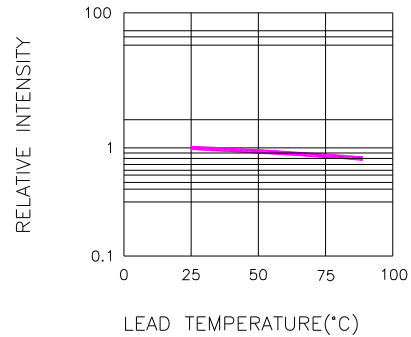


Fig.4 RELATIVE INTENSITY VS. LEAD TEMPERATURE
(PULSED 20 mA; 300us PULSE, 10ms PERIOD)

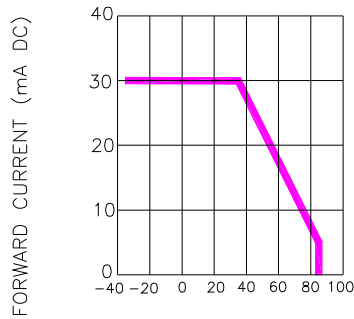


Fig.5 FORWARD CURRENT VS. AMBIENT TEMPERATURE

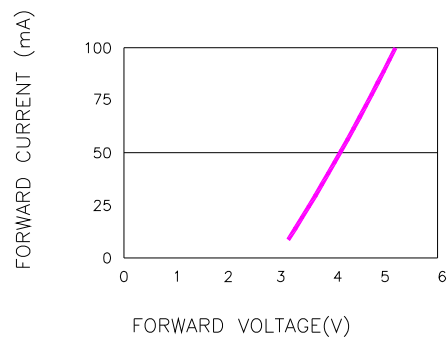


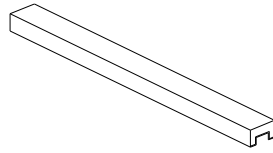
Fig.6 PEAK FORWARD VOLTAGE VS. FORWARD(100us TEST PULSE, 1% DUTY CYCLE)



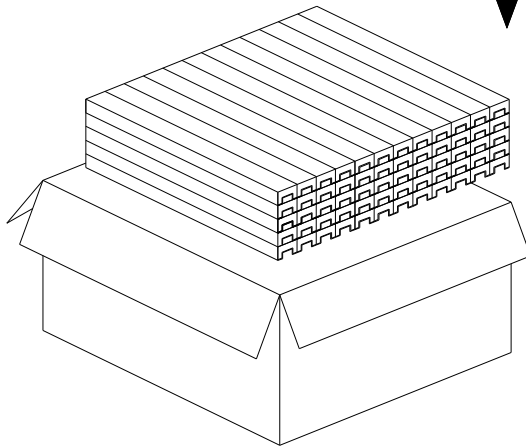
Model No: CSQ-2842/2841B7

■ Package Dimensions

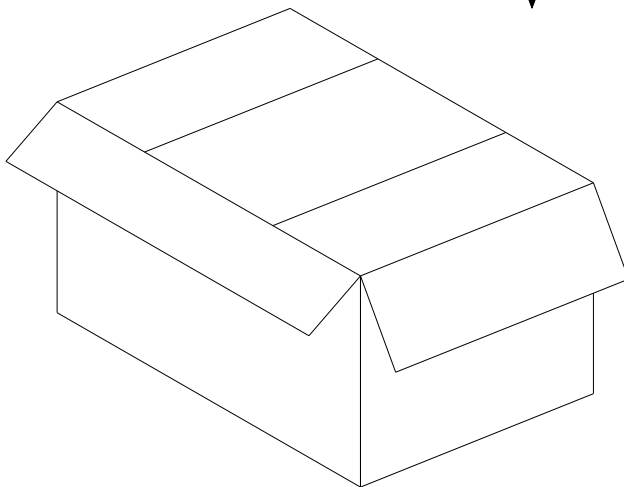
CSQ-284XX
Quad Digit Display
Dice Code



15 Pcs Per Tube



90 Tubes Per Inner Box
Total Q'TY: 1350 Pcs



3 Inner Boxes Per Carton.
Total Q'TY: 4050 Pcs

Carton Size:
L540*W485*H305.5 mm