

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

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Model No : CSQ-2842/2841B7

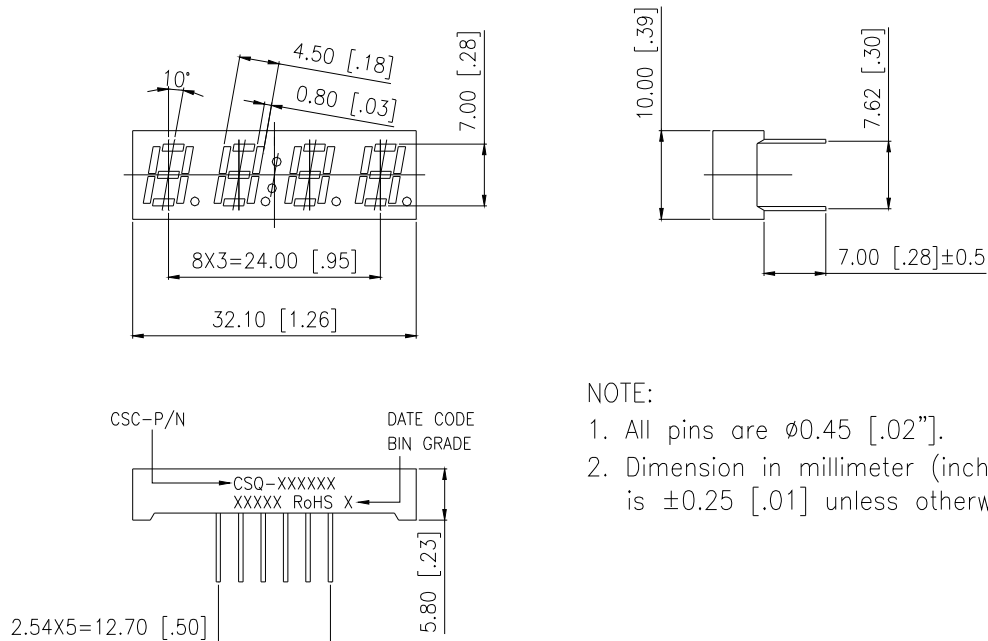
■ Features -

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 -

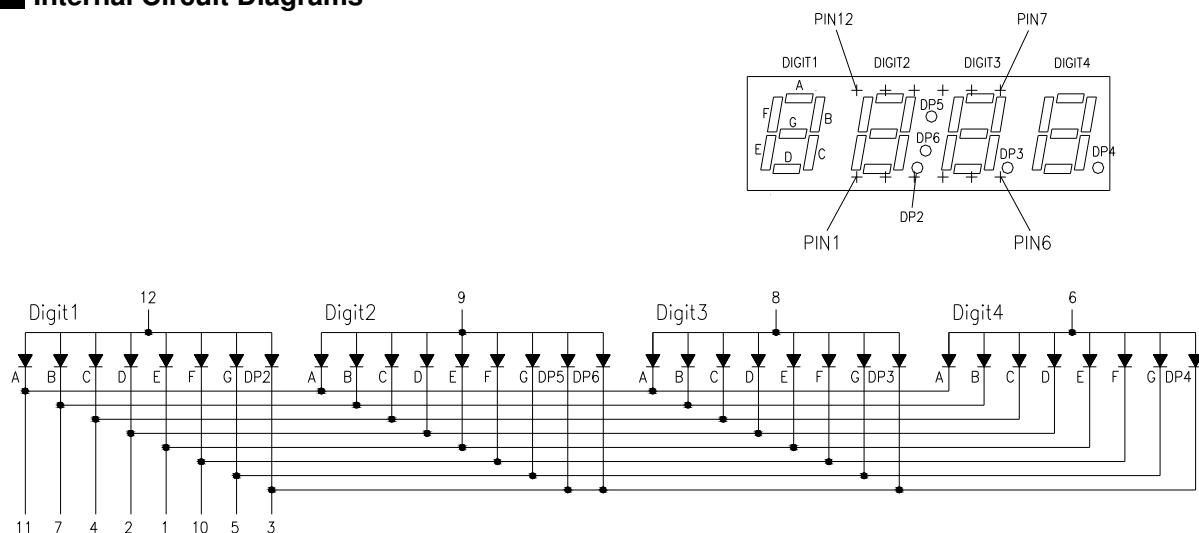
Part No.	Chip		Description
	Material	Emitted Color	
CSQ-2842B7	InGaN	Super Bright Blue	Common Anode
CSQ-2841B7	InGaN	Super Bright Blue	Common Cathode

■ Package Dimensions -



NOTE:

1. All pins are $\phi 0.45$ [0.02"].
2. Dimension in millimeter (inch), and tolerance is ± 0.25 [0.01] 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	P _{AD}	120	mW
Continuous Forward Current Per Dice	I _{AF}	30	mA
Peak Current Per Dice(duty cycle 1/10, 1kHz)	I _{PF}	100	mA
Derating Linear From 25°C Per Dice	-	0.4	mA/°C
Reverse Voltage Per Dice	V _R	5	V
Operating Temp.	T _{opr}	-35 ~ +85	°C
Storage Temp.	T _{stg}	-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℃)

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

[查询"CSQ-2842B7"供应商](#)

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Typical Electrical / Optical Characteristics Curves -

(Ta = 25°C Unless Otherwise Noted)

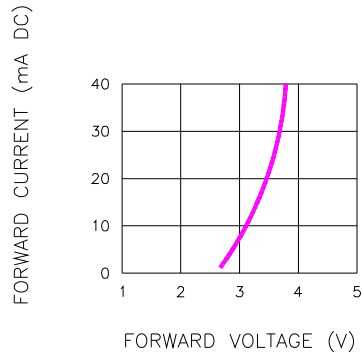


Fig.1 FORWARD CURRENT VS. FORWARD VOLTAGE

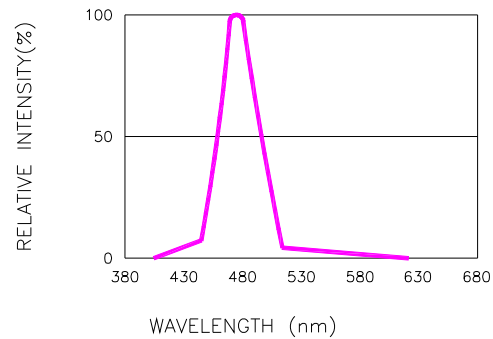


Fig.2 RELATIVE INTENSITY VS. WAVELENGTH

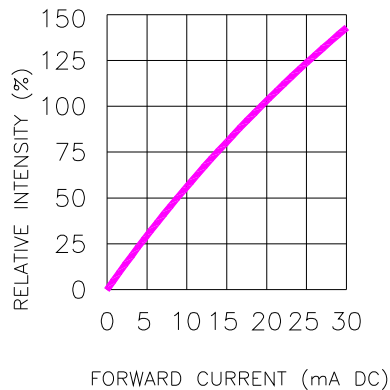


Fig.3 RELATIVE INTENSITY VS. FORWARD CURRENT

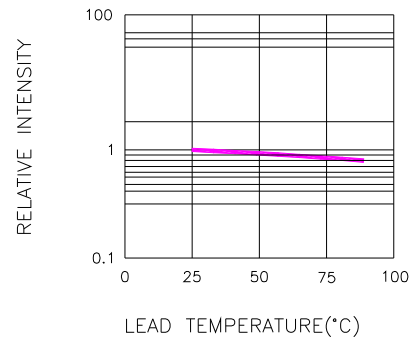


Fig.4 RELATIVE INTENSITY VS. LEAD TEMPERATURE
(PULSED 20 mA; 300us
PULSE, 10ms PERIOD)

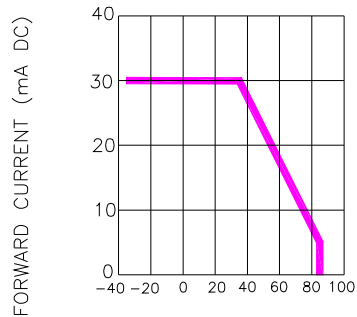


Fig.5 FORWARD CURRENT VS. AMBIENT TEMPERATURE

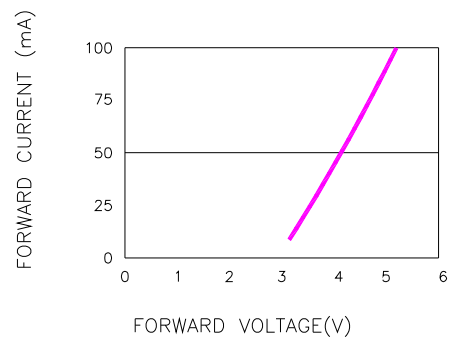


Fig.6 PEAK FORWARD VOLTAGE VS. FORWARD (100us TEST PULSE, 1% DUTY CYCLE)

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