



PRODUCT SPECIFICATION

Model No : CSQ-2842S/2841S

Descriptions:

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



CUSTOMER APPROVED SIGNATURES	APPROVED BY	CHECKED BY	PREPARED BY

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Model No : CSQ-2842/2841S

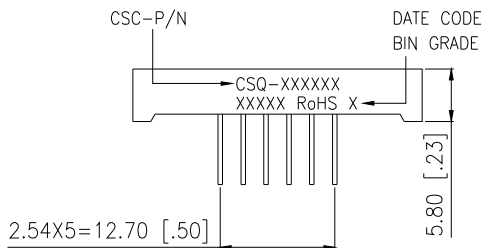
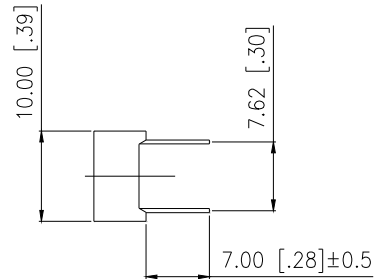
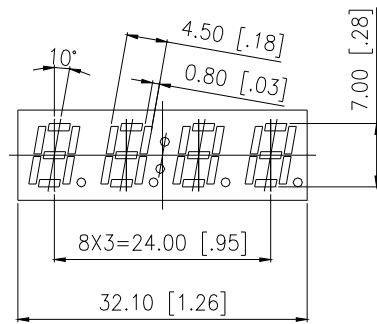
Features -

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-2842S	AlGaAs	Super Bright Red	Common Anode
CSQ-2841S	AlGaAs	Super Bright Red	Common Cathode

Package Dimensions -



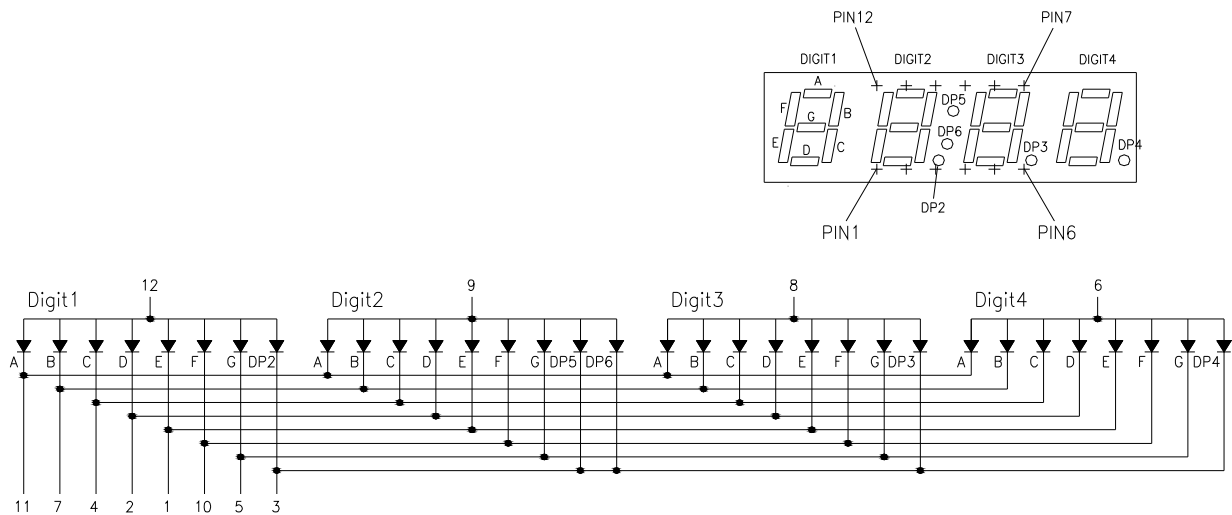
NOTE:

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



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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}	75	mW
Continuous Forward Current Per Dice	I _{AF}	30	mA
Peak Current Per Dice (duty cycle 1/10, 1kHz)	I _{PF}	120	mA
Derating Linear From 25°C Per Dice	-	0.42	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°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
Forward Voltage Per Segment	V_F	-	1.8	2.5	V	$I_F=20mA$
Luminous Intensity Per Segment	I_v	2400	6000	-	ucd	$I_F=10mA$
Peak Emission Wavelength	λ_p	-	660	-	nm	$I_F=20mA$
Dominant Wavelength	λ_d	-	644	-	nm	$I_F=20mA$
Spectrum Radiation Bandwidth	$\Delta \lambda$	-	20	-	nm	$I_F=20mA$
Reverse Current	I_R	-	-	100	μA	$V_R=5V$
Luminous Intensity Matching Ratio	I_V-m	-	-	2:1	-	$I_F=10mA$



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■ Typical Electrical / Optical Characteristics Curves -

(Ta = 25°C Unless Otherwise Noted)

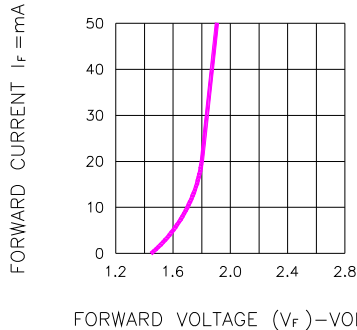


Fig.1 FORWARD CURRENT VS. FORWARD VOLTAGE

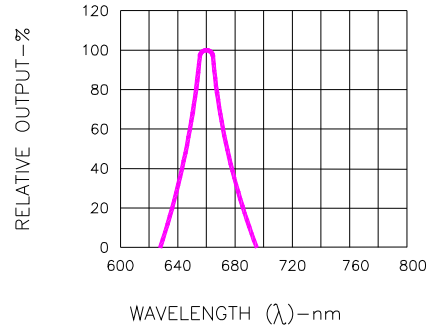


Fig.2 SPECTRAL RESPONSE

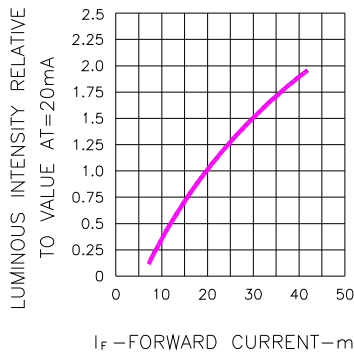


Fig.3 RELATIVE LUMINOUS INTENSITY VS. FORWARD CURRENT

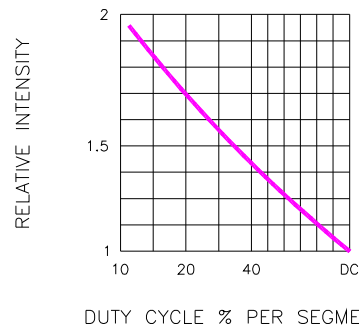


Fig.5 LUMINOUS INTENSITY VS. DUTY CYCLE

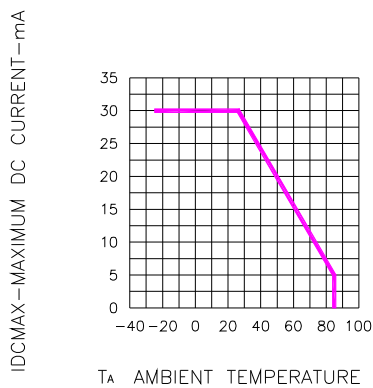


Fig.4 MAXIMUM ALLOWABLE DC CURRENT PER SEGMENT VS. A FUNCTION OF AMBIENT TEMPERATURE

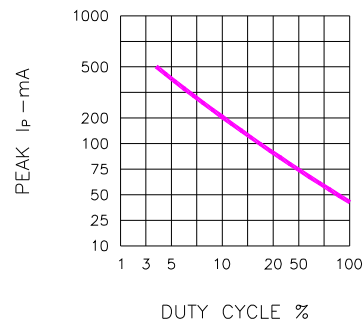


Fig.6 MAX PEAK CURRENT VS. DUTY CYCLE (REFRESH RATE f=1 KHz)



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■ Package Dimensions

