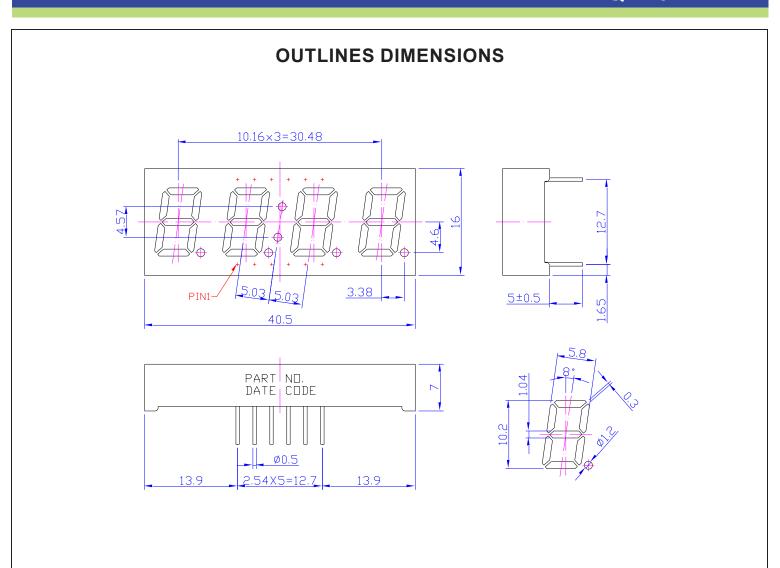


SPECIFICATIONS

CDQC40R2WBF



Notes:

- 1. All Dimensions are in millimeters (inches).
- 2. Tolerance is \pm 0.25mm (0.01") unless otherwise noted.
- 3. Specifications are subject to change without notice.

Part Number	Chip Material	Color of Emission	Lens Type	Description	
CDQC40R2WBF	InGaAlP	Red	White Seg./Black Face	Common Cathode	



ChromeLED Corp. reserves the right to make changes at any time in order to supply the best product possible. The most current version of this document will always be available at: www.chromeled.com



ABSOLUTE MAXIMUM RATINGS

(TA=25°C)

Parameter	Symbol	Max Rating	Unit			
Power Dissipation	Pb	70	mW			
Pulse Forward Current	lFP	90	mA			
Continuous Forward Current	lF	25	mA			
Reverse Voltage Segment	VR	5	V			
Operating Temperature Range	Topr	-25~+85	°C			
Storage Temperature Range	Тѕтс -25~+85		°C			
= Pulse Width ≤ 10 ms, Duty Ratio ≤1/10. Soldering Condition: 260 °C/ 5sec						

OPTICAL-ELECTRICAL CHARACTERISTICS

(TA=25°C)

Deremeter	Symbol	Toot Condition	Value			Lloit
Parameter		Test Condition	Min	Тур	Max	Unit
Luminous Intensity	lv	I _F = 20mA	-	60	-	mcd
Forward Voltage	VF	I⊧ = 20mA	-	2.0	2.4	V
Reverse Leakage Current	lR	V _R = 5V	-	-	10	μΑ
Peak Wavelength	λР	I⊧ = 20mA	-	632	-	nm
Dominant Wavelength	λD	I⊧ = 20mA	619	624	629	nm
Spectral Radiation Bandwidth	Δλ	I⊧ = 20mA	-	20	-	nm

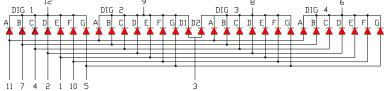


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TYPICAL INTERNAL EQUIVALENT CIRCUIT







OPTICAL CHARACTERISTIC CURVES

(25 °C Free Air Temperature Unless Otherwise Specified)

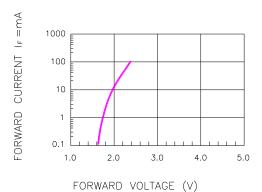
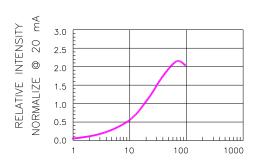


Fig.1 FORWARD CURRENT VS. FORWARD VOLTAGE



FORWARD CURRENT (mA)
Fig.2 RELATIVE INTENSITY VS. FORWARD CURRENT

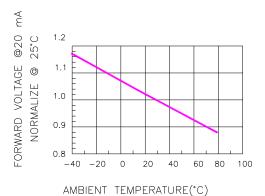


Fig.3 FORWARD VOLTAGE VS. TEMPERATURE

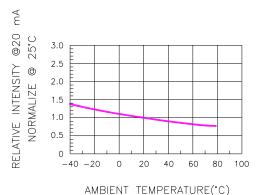


Fig.4 RELATIVE INTENSITY VS. TEMPERATURE

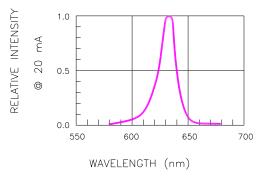
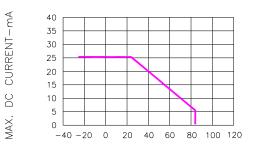


Fig.5 RELATIVE INTENSITY VS. WAVELENGTH



AMBIENT TEMPERATURE (TA)-°C
Fig.6 MAX. ALLOWABLE DC CURRENT
VS. AMBIENT TEMPERATURE

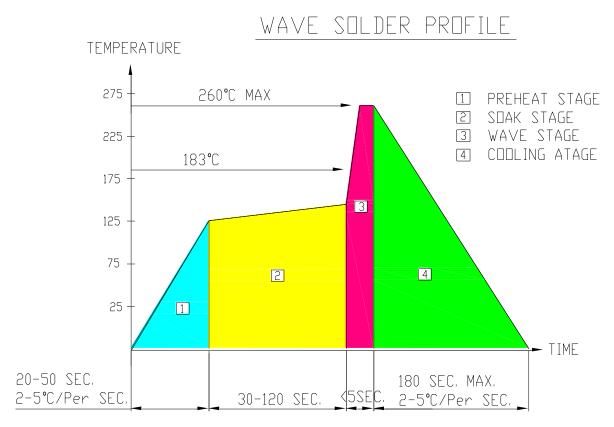


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SOLDERING CONDITIONS - DISPLAY TYPE LED

RECOMMEND SOLDERING PROFILE



SOLDERING IRON

Basic spec is ≦4 sec when 260°C. If temperature is higher, time should be shorter (+10°C→1 sec). Power dissipation of Iron should be smaller than 15W, and temperature should be controllable. Surface temperature of the device should be under 230°C.

REWORK

Customer must finish rework within ≦4 sec under 245°C.

