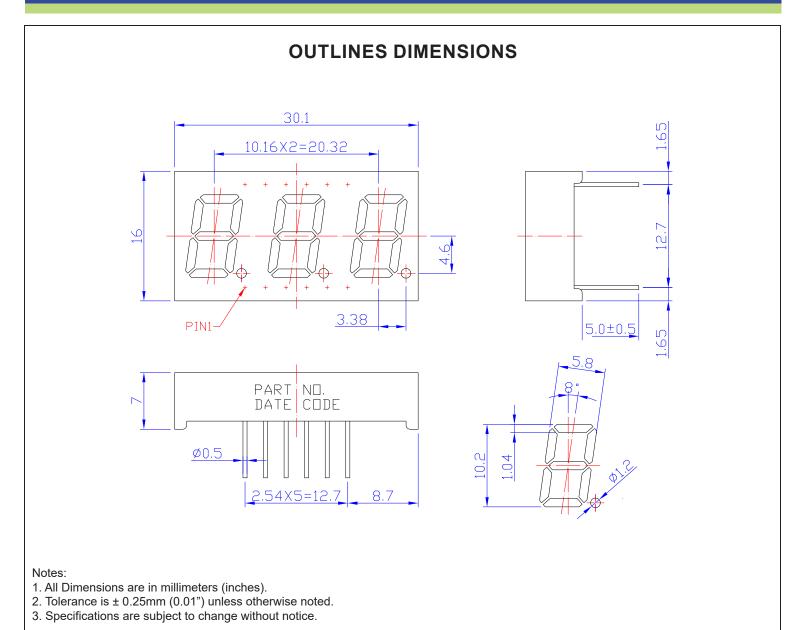


SPECIFICATIONS CDTA40R2WF



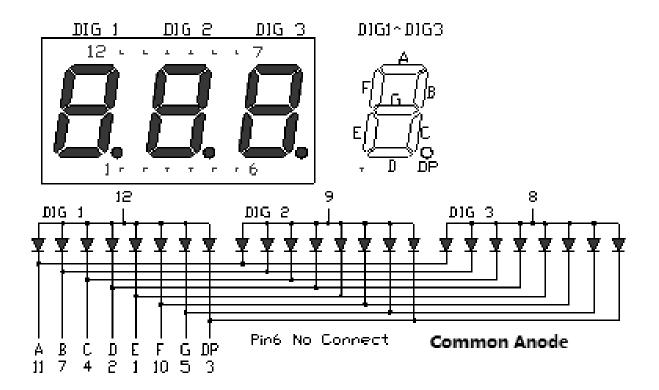
Part Number	Chip Material	Color of Emission	Lens Type	Description
CDTA40R2WF	InGaAlP	Red	White Segment	Common Anode



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TYPICAL INTERNAL EQUIVALENT CIRCUIT





ABSOLUTE MAXIMUM RATINGS

(TA=25°C)

Parameter	Symbol	Max Rating	Unit			
Power Dissipation	Pb	48	mW			
Pulse Forward Current	lFP	40	mA			
Continuous Forward Current	lF	20	mA			
Reverse Voltage Segment	VR	5	V			
Operating Temperature Range	Topr	-40~+85	°C			
Storage Temperature Range	Тѕтс	-40~+85	°C			
IFP = Pulse Width ≤ 10 ms, Duty Ratio ≤1/10. Soldering Condition: 260 °C/ 5sec						

OPTICAL-ELECTRICAL CHARACTERISTICS

(TA=25°C)

Darameter	Symbol	Toot Condition	Value			Lloit
Parameter		Test Condition	Min	Тур	Max	Unit
Luminous Intensity	lv	I _F = 20mA	-	40	-	mcd
Forward Voltage	VF	I _F = 20mA	-	2.1	2.4	V
Reverse Leakage Current	lR	V _R = 5V	-	1	10	μΑ
Peak Wavelength	λР	I⊧ = 20mA	-	632	-	nm
Dominant Wavelength	λD	I⊧ = 20mA	-	624	-	nm
Spectral Radiation Bandwidth	Δλ	I⊧ = 20mA	-	20	-	nm



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OPTICAL CHARACTERISTIC CURVES

(25 °C Free Air Temperature Unless Otherwise Specified)

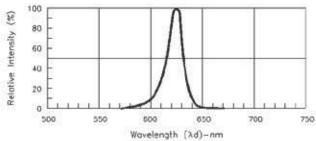


Fig.1-Relative Intensity VS. Wavelength

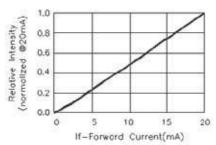


Fig.2-Relative Luminous Intensity vs. Forward Current

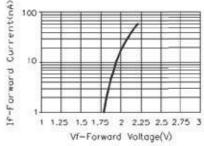
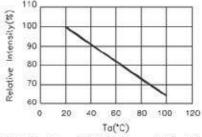


Fig.3-Forward Current vs. Forward Voltage



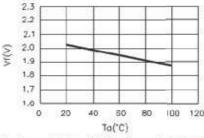


Fig.4-Relative Intensity(@20mA) vs. Ambient Temperature Fig.5-Farward Voltage(@20mA) vs. Ambient Temperature

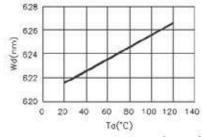
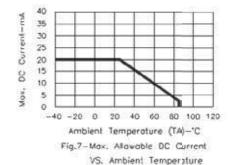


Fig.6-Dominant Wavelength(@20mA) VS. Ambient Temperature



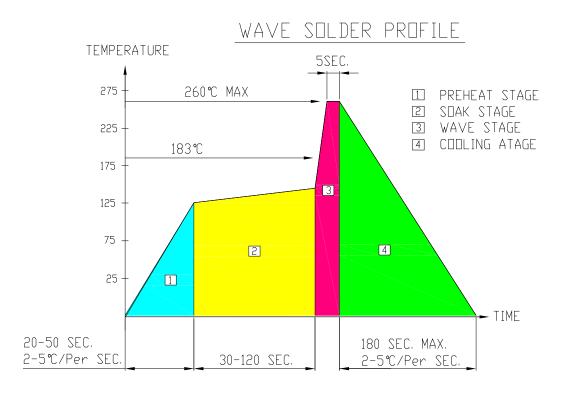


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SOLDERING CONDITIONS - DISPLAY TYPE LED

RECOMMEND SOLDERING PROFILE



Note:

- Recommend pre-heat temperature of 105°C or less (as measured with a thermocouple attached to the LED pins) prior to immersion in the solder wave with a maximum solder bath temperature of 260°C
- Peak wave soldering temperature between 245°C ~ 225°C for 3 sec (5 sec max)
- No more than one wave soldering pass

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 ≦3 sec under 350°C. The head of soldering iron cannot touch copper foil.



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