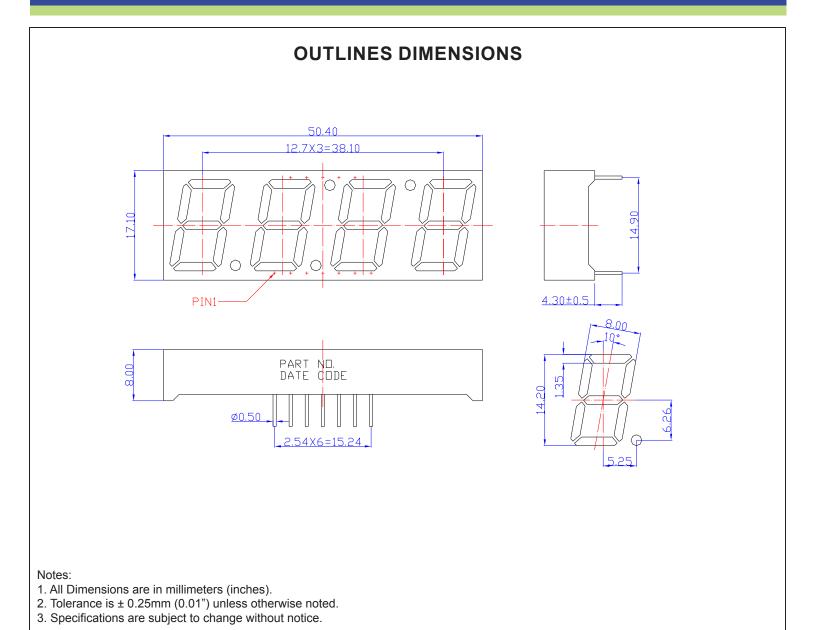


### **SPECIFICATIONS**

# CDQA56R2WF-1A



Part Number	Chip Material	Color of Emission	Color of Emission Lens Type	
CDQA56R2WF-1A	InGaAlP	Red	White Segment	Common Anode



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### **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			
IFP = Pulse Width ≤ 10 ms, Duty Ratio ≤1/10. Soldering Condition: 260 °C/ 5sec						

### **OPTICAL-ELECTRICAL CHARACTERISTICS**

(TA=25°C)

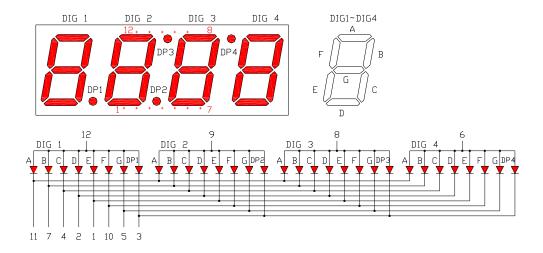
Parameter	Symbol	Toot Condition	Value			Linit
Parameter		Test Condition	Min	Тур	Max	Unit
Luminous Intensity	lv	I <sub>F</sub> = 10mA	-	30	-	mcd
Forward Voltage	VF	I⊧ = 20mA	-	2.0	2.6	V
Reverse Leakage Current	lR	V <sub>R</sub> = 5V	-	-	10	μΑ
Peak Wavelength	λР	I⊧ = 20mA	-	632	-	nm
Dominant Wavelength	λD	I⊧ = 20mA	619	624	629	nm
Spectral Radiation Bandwidth	Δλ	I⊧ = 20mA	-	20	-	nm



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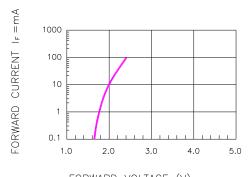
## TYPICAL INTERNAL EQUIVALENT CIRCUIT



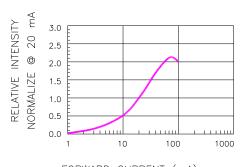


### **OPTICAL CHARACTERISTIC CURVES**

### (25 °C Free Air Temperature Unless Otherwise Specified)



FORWARD VOLTAGE (V)
Fig.1 FORWARD CURRENT VS. FORWARD VOLTAGE



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

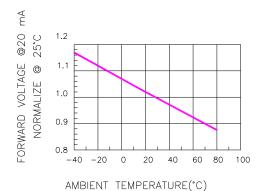


Fig. 3 FORWARD VOLTAGE VS. TEMPERATURE

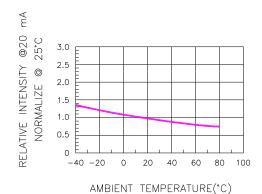
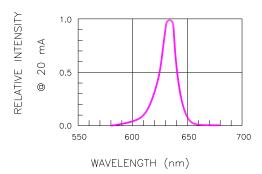
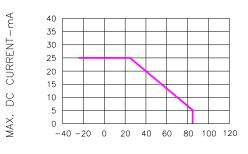


Fig.4 RELATIVE INTENSITY VS. TEMPERATURE







AMBIENT TEMPERATURE (TA)-°C

Fig.6 MAX. ALLOWABLE DC CURRENT VS. AMBIENT TEMPERATURE

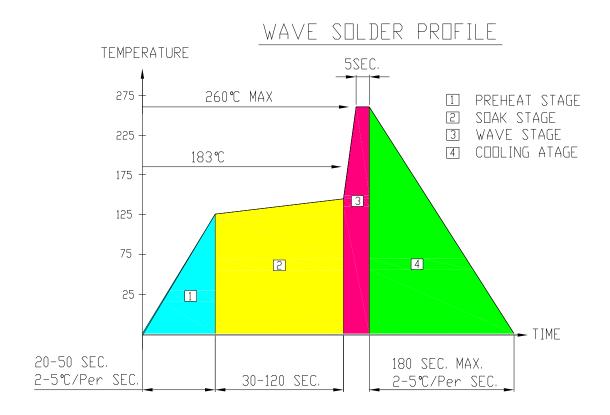


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### **SOLDERING CONDITIONS - DISPLAY TYPE LED**

#### 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.

