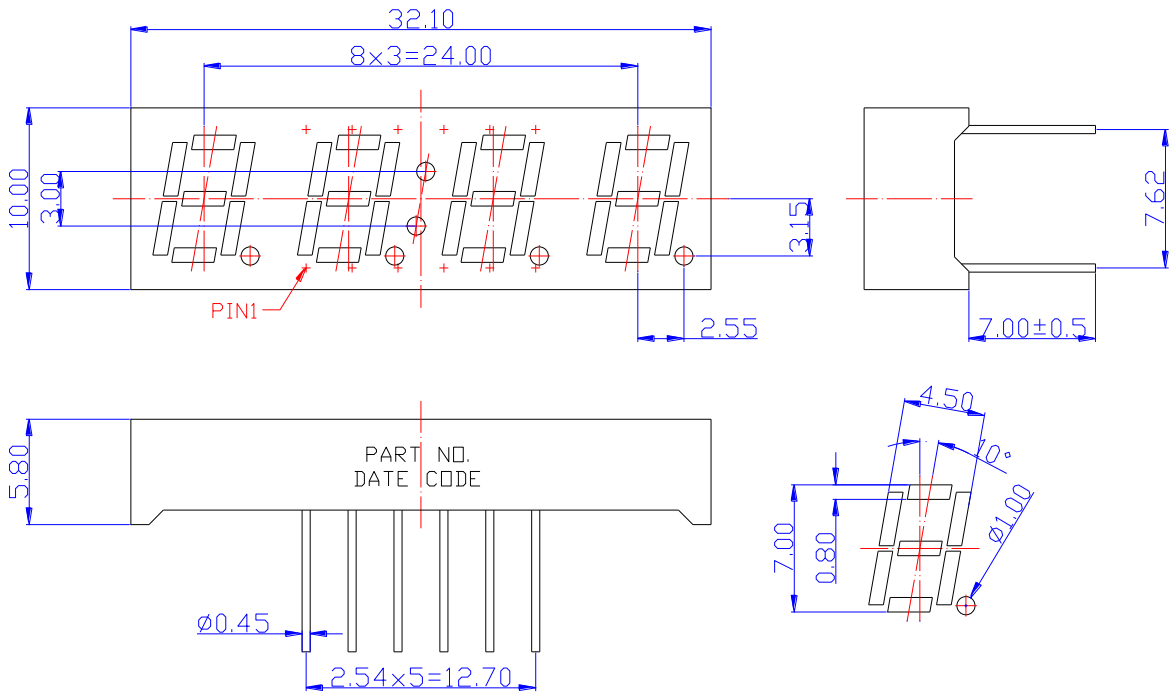
SPECIFICATIONS CDQA28GT2WB

OUTLINES DIMENSIONS



Notes:
1. All Dimensions are in millimeters (inches).
2. Tolerance is ± 0.25mm (0.01”) unless otherwise noted.
3. Specifications are subject to change without notice.

Part Number	Chip Material	Color of Emission	Segment/Face	Description
CDQA28GT2WB	InGaN	Green	White/Black	Common Anode

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ABSOLUTE MAXIMUM RATINGS (TA=25°C)

Parameter	Symbol	Max Rating	Unit
Power Dissipation	P_D	120	mW
Pulse Forward Current	I_{FP}	120	mA
Continuous Forward Current	I_F	30	mA
Reverse Voltage Segment	V_R	5	V
Operating Temperature Range	T_{OPR}	-25~+85	°C
Storage Temperature Range	T_{STG}	-25~+85	°C
I_{FP} = Pulse Width ≤ 10 ms, Duty Ratio ≤1/10. Soldering Condition: 260 °C/ 5sec			

OPTICAL-ELECTRICAL CHARACTERISTICS (TA=25°C)

Parameter	Symbol	Test Condition	Value			Unit
			Min	Typ	Max	
Luminous Intensity	I_V	I_F = 10mA	-	100	-	mcd
Forward Voltage	V_F	I_F = 20mA	-	3.2	-	V
Reverse Leakage Current	I_R	V_R = 5V	-	-	10	μA
Dominant Wavelength	λ_D	I_F = 20mA	-	525	-	nm
Spectral Radiation Bandwidth	$\Delta\lambda$	I_F = 20mA	-	30	-	nm

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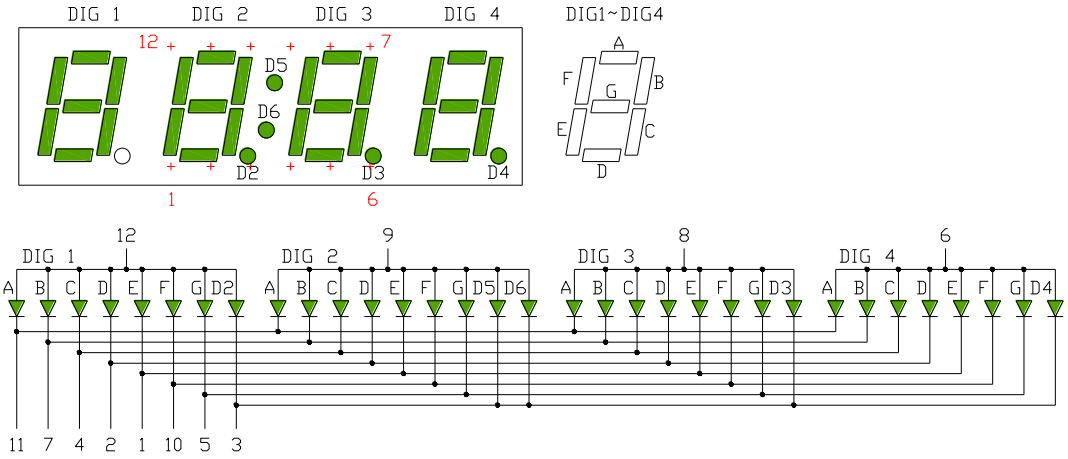
TYPICAL INTERNAL EQUIVALENT CIRCUIT



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OPTICAL CHARACTERISTIC CURVES

(25 ℃ Free Air Temperature Unless Otherwise Specified)

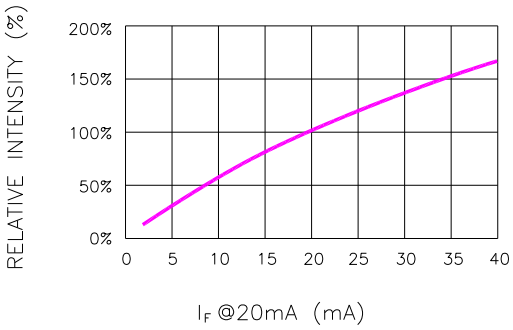

Fig.1 RELATIVE INTENSITY VS. FORWARD CURRENT

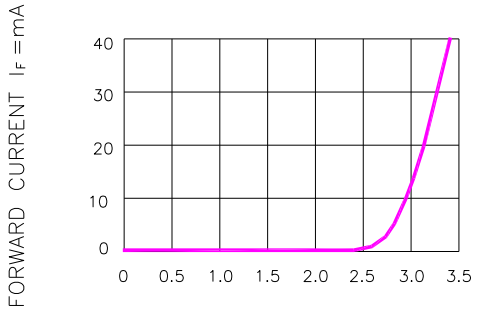

Fig.2 FORWARD CURRENT VS. FORWARD VOLTAGE

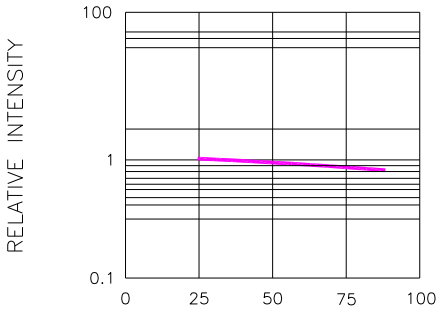

Fig.3 RELATIVE INTENSITY VS.LEAD TEMPERATURE (PULSED 20 mA; 300us PULSE,10ms PERIOD)

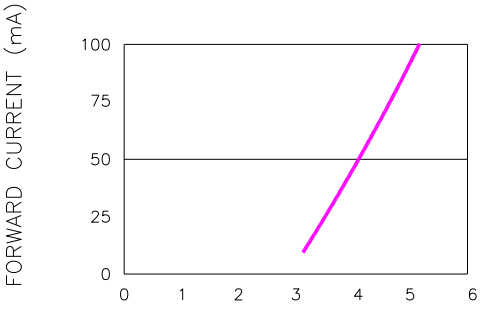

Fig.4 PEAK FORWARD VOLTAGE VS.FORWARD(100us TEST PULSE, 1% DUTY CYCLE)

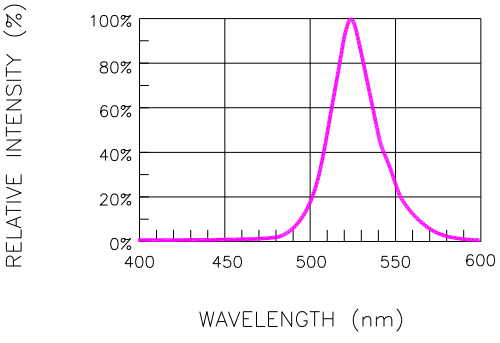

Fig.5 RELATIVE INTENSITY VS. WAVELENGTH

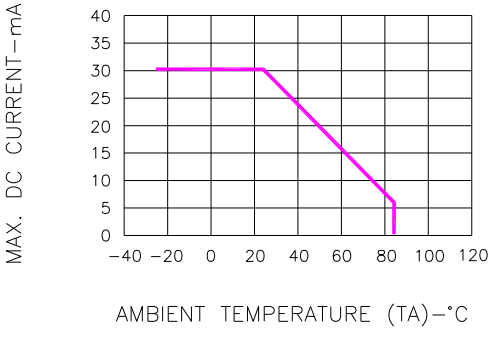

Fig.6 MAX. ALLOWABLE DC CURRENT VS. AMBIENT TEMPERATURE

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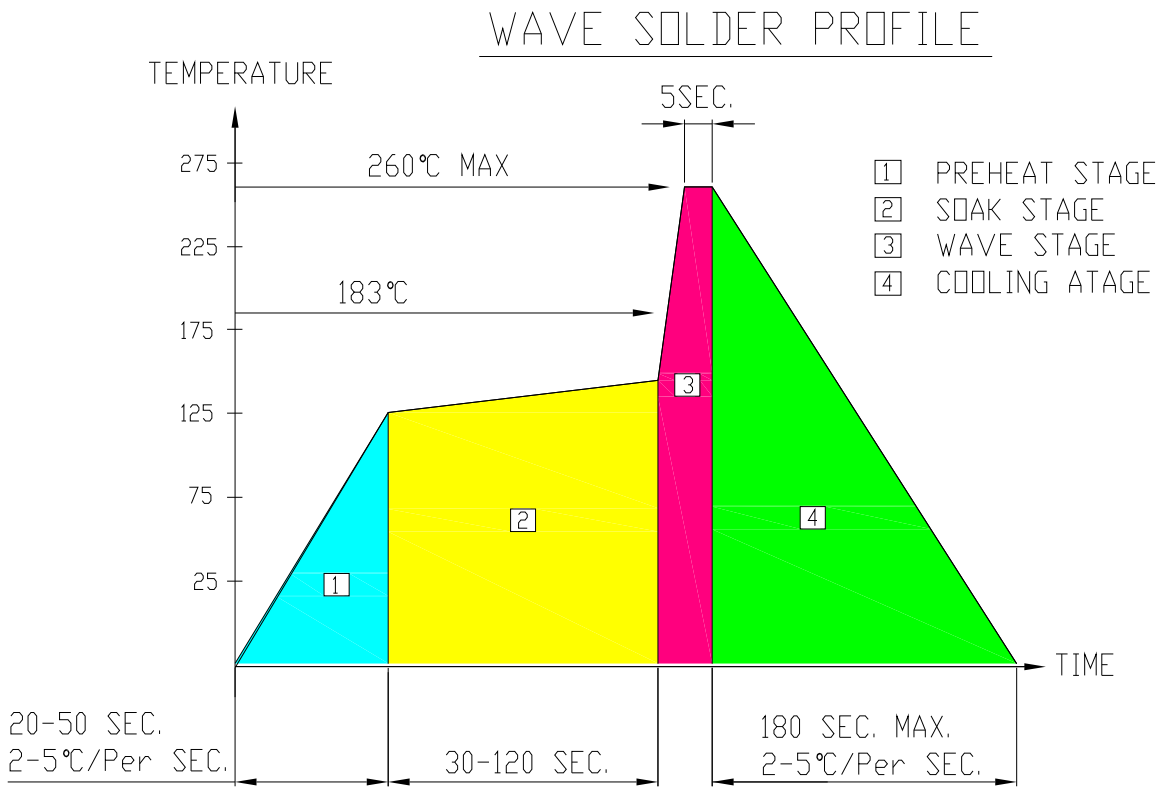
SOLDERING CONDITIONS – DISPLAY TYPE LED

- **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℃.

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