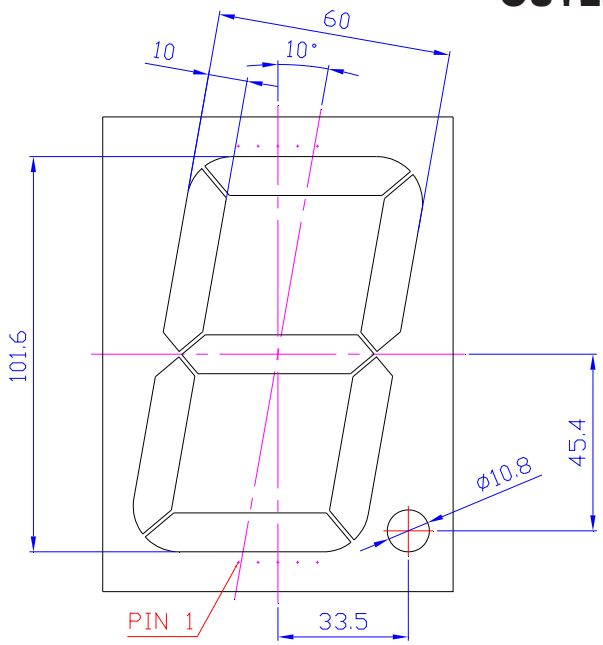
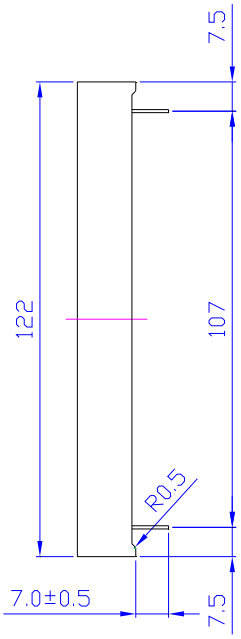
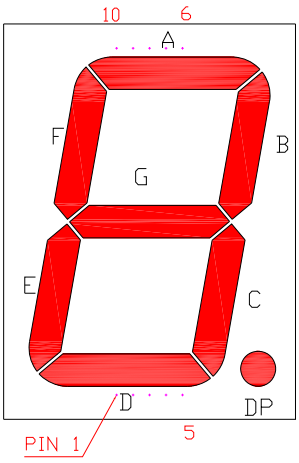
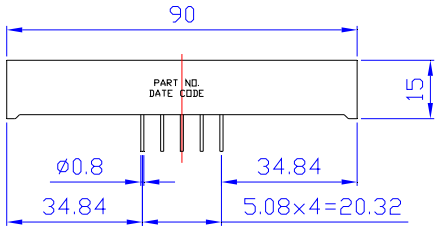
SPECIFICATIONS CDSA400R2WF

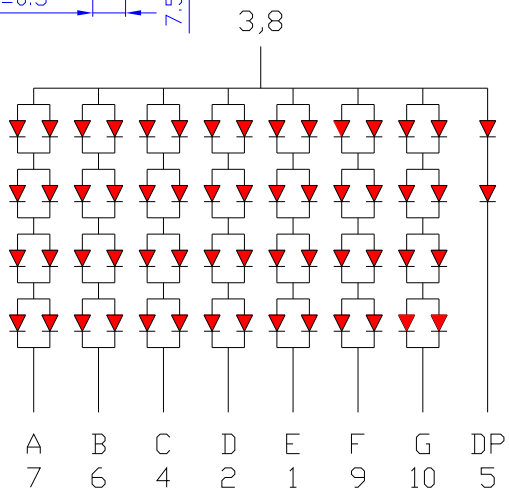
OUTLINES DIMENSIONS











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	Lens Type	Description
CDSA400R2WF	InGaAlP	Red	White Segment	Common Anode

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ABSOLUTE MAXIMUM RATINGS (TA=25°C)

Parameter	Symbol	Max Rating	Unit
Power Dissipation	P_D	75	mW
Pulse Forward Current	I_{FP}	200	mA
Continuous Forward Current (DP)	I_F	120 (60)	mA
Reverse Voltage Segment (DP)	V_R	20 (10)	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	52	110	-	mcd
Forward Voltage	V_F	I_F = 20mA	-	8.4	9.2	V
Reverse Leakage Current	I_R	V_R = 20V	-	-	10	μA
Peak Wavelength	λ_P	I_F = 20mA	-	650	-	nm
Dominant Wavelength	λ_D	I_F = 20mA	-	639	-	nm
Spectral Radiation Bandwidth	$\Delta\lambda$	I_F = 20mA	-	20	-	nm

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OPTICAL CHARACTERISTIC CURVES

Typical Electro-optical Characteristic Curves
(25 ℃ Free Air Temperature Unless Otherwise Specified)

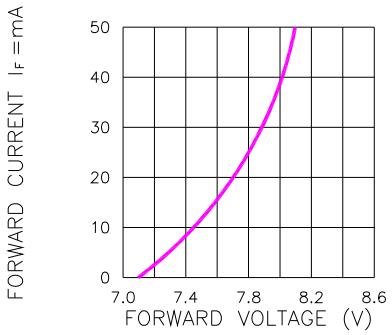


Fig.1 FORWARD CURRENT VS. FORWARD VOLTAGE

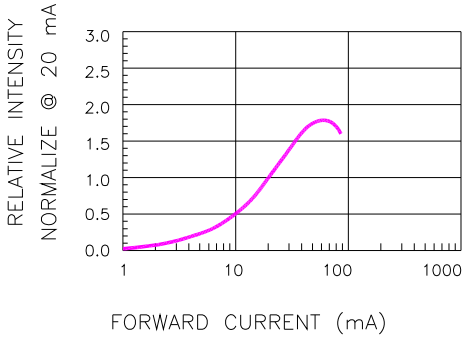


Fig.2 RELATIVE INTENSITY VS. FORWARD CURRENT

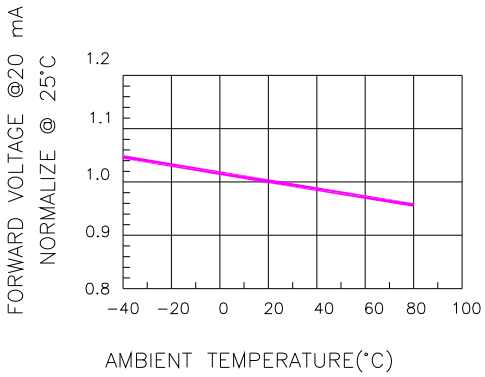


Fig.3 FORWARD VOLTAGE VS. TEMPERATURE

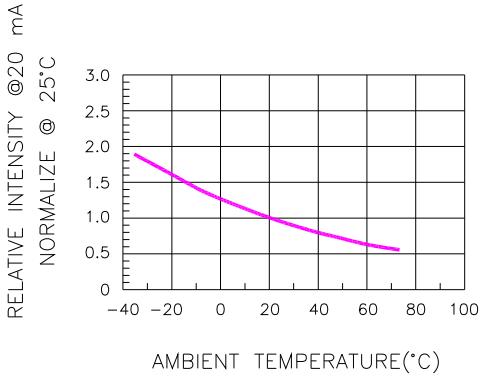


Fig.4 RELATIVE INTENSITY VS. TEMPERATURE

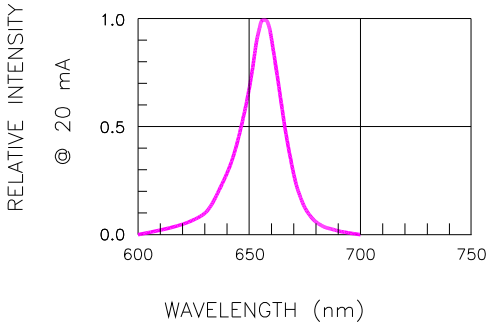


Fig.5 RELATIVE INTENSITY VS. WAVELENGTH

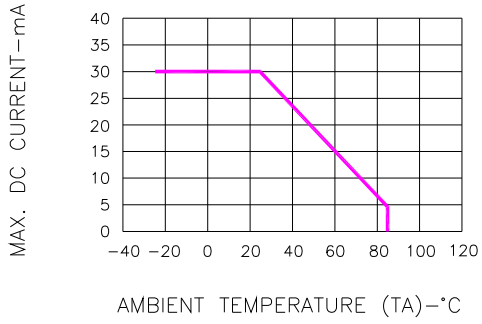


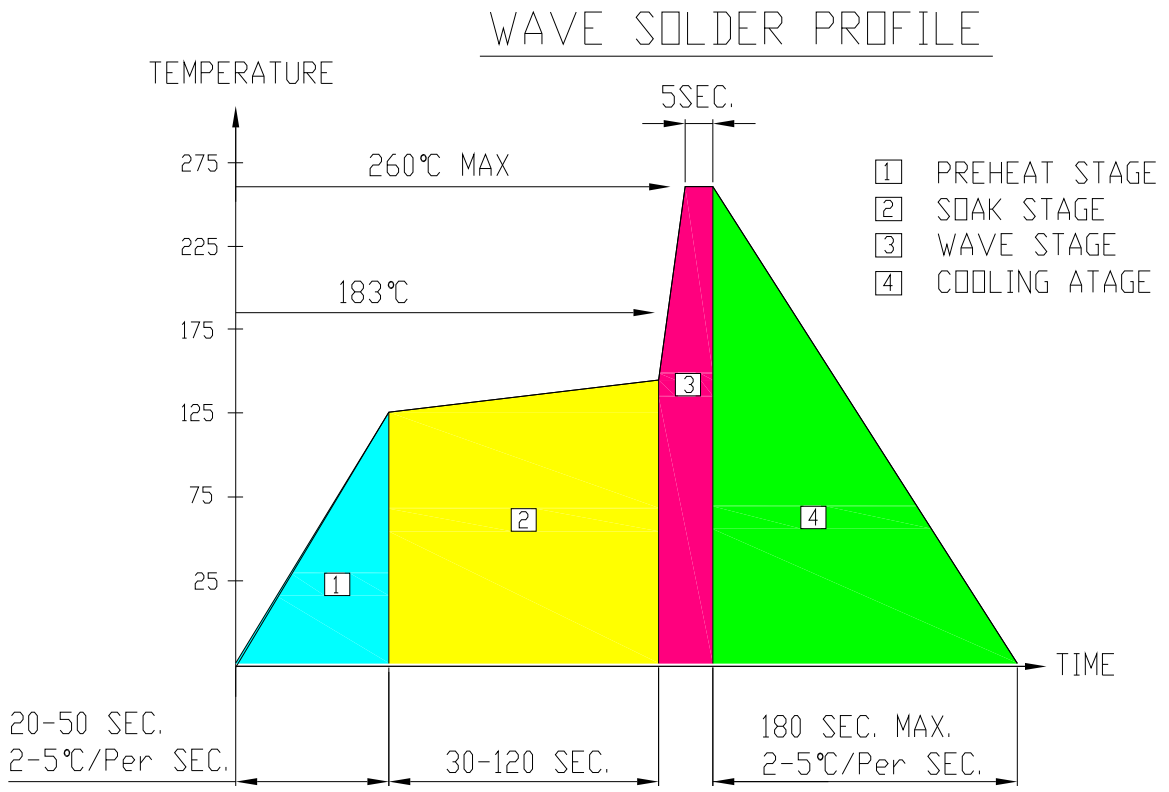
Fig.6 MAX. ALLOWABLE DC CURRENT VS. AMBIENT TEMPERATURE

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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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