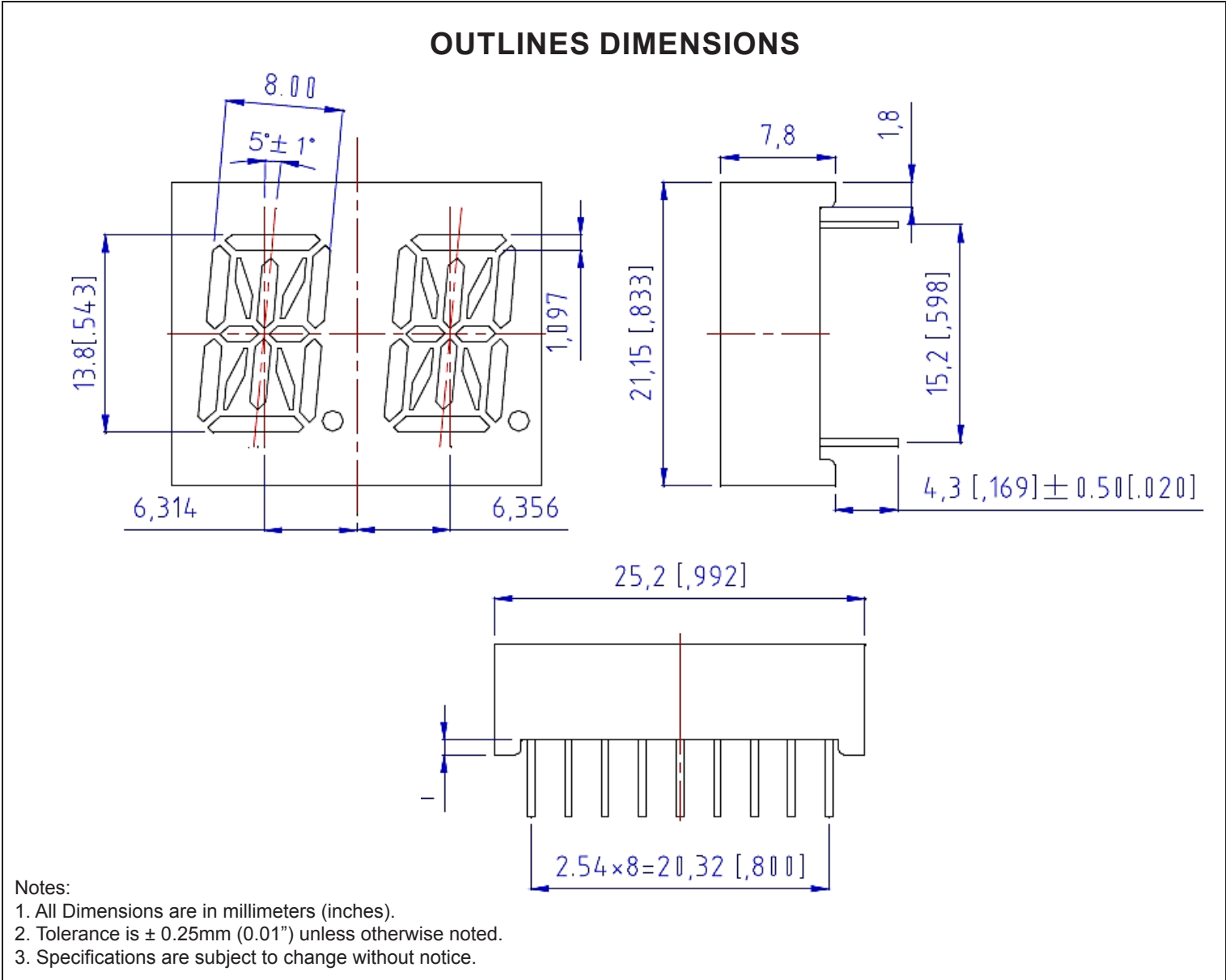


SPECIFICATIONS **CDDCN54B2W**


Part Number	Chip Material	Color of Emission	Lens Type	Description
CDDCN54B2W	InGaN	Blue	White Segment	Common Cathode



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ABSOLUTE MAXIMUM RATINGS
(TA=25°C)

Parameter	Symbol	Max Rating	Unit
Power Dissipation	PD	114	mW
Pulse Forward Current	IFP	100	mA
Continuous Forward Current	IF	30	mA
Reverse Voltage Segment	VR	5	V
Operating Temperature Range	TOPR	-35~+85	°C
Storage Temperature Range	TSTG	-35~+85	°C
IFP = Pulse Width ≤ 10 ms, Duty Ratio ≤ 1/10. Soldering Condition: 260 °C/ 5sec			

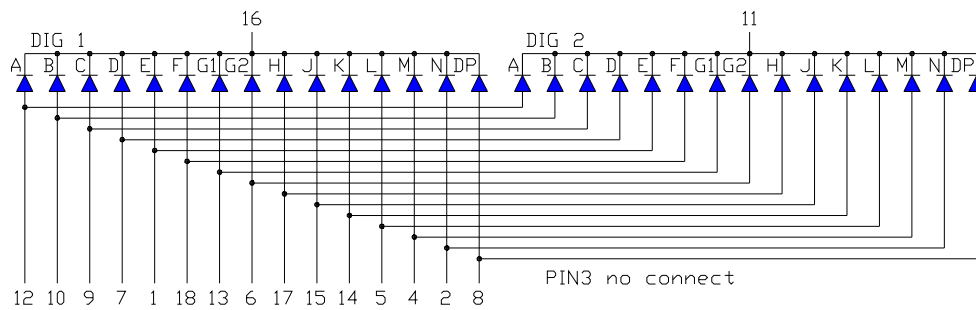
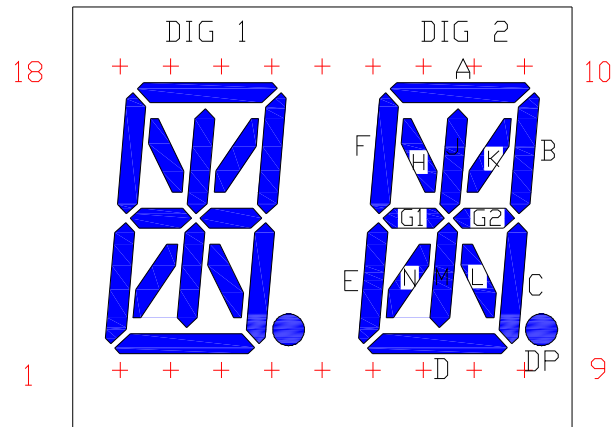
OPTICAL-ELECTRICAL CHARACTERISTICS
(TA=25°C)

Parameter	Symbol	Test Condition	Value			Unit
			Min	Typ	Max	
Luminous Intensity	IV	IF = 20mA	11	28	-	mcd
Forward Voltage	VF	IF = 20mA	-	3.2	3.8	V
Reverse Leakage Current	IR	VR = 5V	-	-	50	µA
Peak Wavelength	λP	IF = 20mA	-	470	-	nm
Dominant Wavelength	λD	IF = 20mA	465	470	475	nm
Spectral Radiation Bandwidth	Δλ	IF = 20mA	-	20	-	nm



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TYPICAL INTERNAL EQUIVALENT CIRCUIT



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OPTICAL CHARACTERISTIC CURVES

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

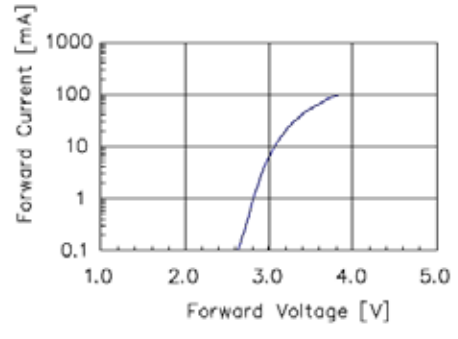


Fig 1. Forward Current vs. Forward Voltage

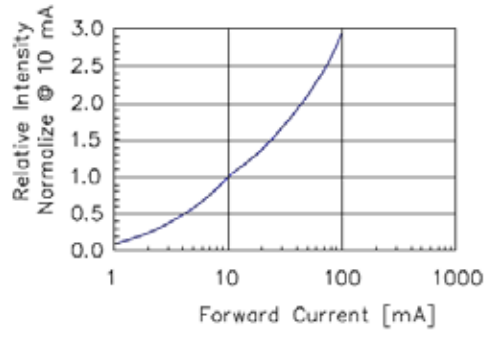


Fig 2. Relative Intensity vs. Forward Current

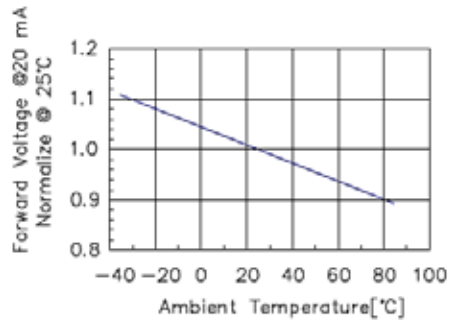


Fig 3. Forward Voltage vs. Temperature

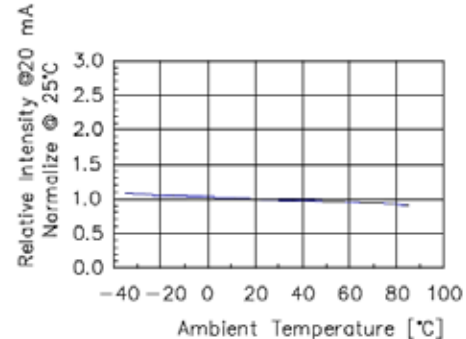


Fig 4. Relative Intensity vs. Temperature

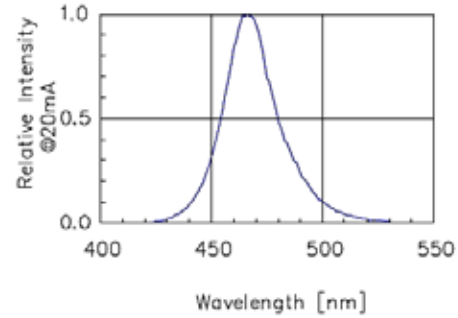
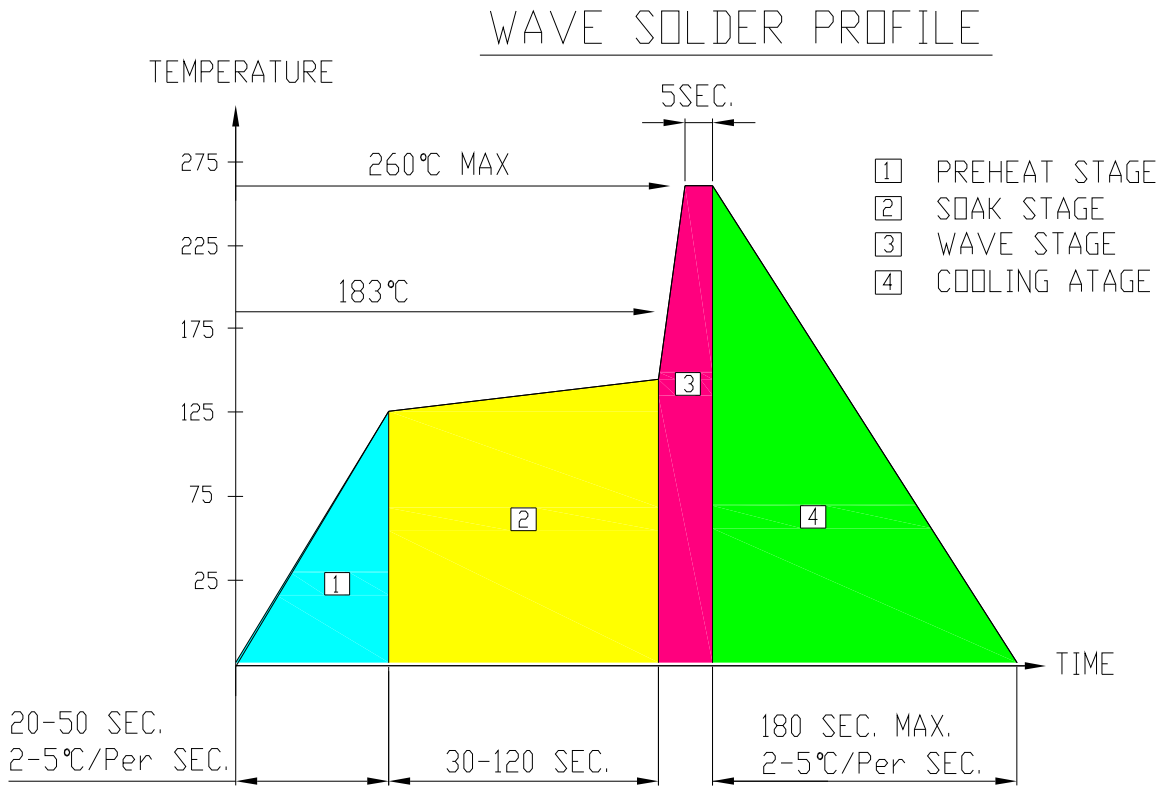


Fig 5. Relative Intensity Vs. Wavelength



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SOLDERING CONDITIONS – DISPLAY TYPE LED


● **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.



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