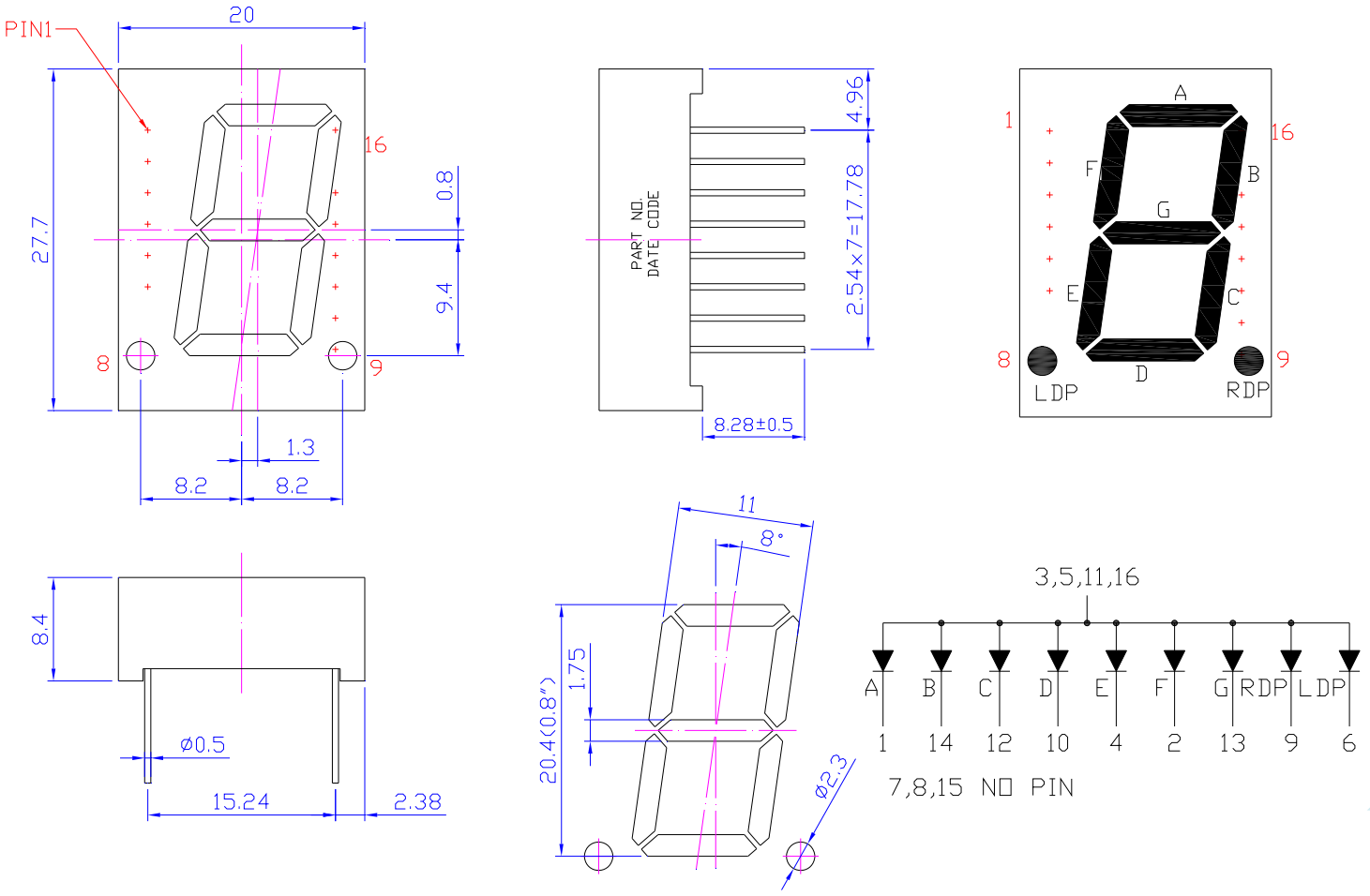
SPECIFICATIONS CDSA80W2WB

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
CDSA80W2WB	GaN	White	White Segment	Common Anode

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ABSOLUTE MAXIMUM RATINGS (TA=25°C)

Parameter	Symbol	Max Rating	Unit
Power Dissipation	P_D	78	mW
Pulse Forward Current	I_{FP}	80	mA
Continuous Forward Current	I_F	20	mA
Reverse Voltage Segment	V_R	5	V
Operating Temperature Range	T_{OPR}	-30~+80	°C
Storage Temperature Range	T_{STG}	-40~+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 = 5mA	12	25	-	mcd
Forward Voltage	V_F	I_F = 5mA	-	2.9	3.4	V
Reverse Leakage Current	I_R	V_R = 5V	-	-	10	μA
Chromaticity Coordinates	X	I_F = 5mA	-	0.29	-	-
Chromaticity Coordinates	Y	I_F = 5mA	-	0.28	-	-
Luminous Intensity Matching Ratio (Segment to Segment)	IV-m	I_F = 5mA	-	1:1.5	-	-

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OPTICAL CHARACTERISTIC CURVES

(25 ℃ Free Air Temperature Unless Otherwise Specified)

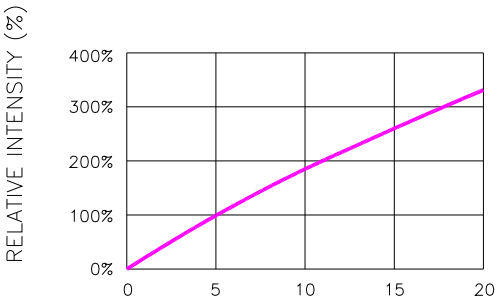

Fig.1 RELATIVE INTENSITY VS. FORWARD CURRENT

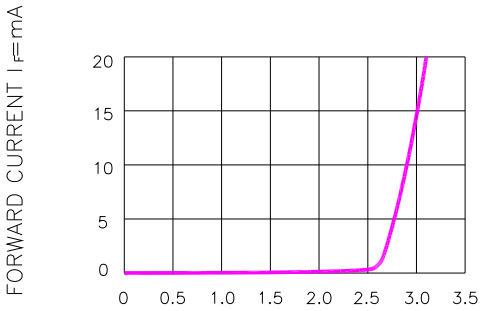

Fig.2 FORWARD CURRENT VS. FORWARD VOLTAGE

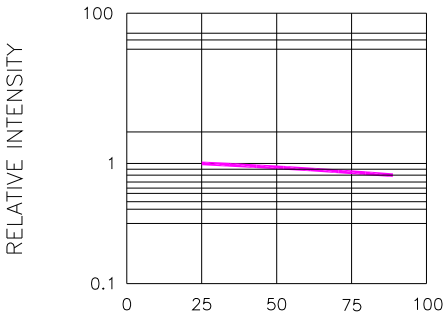

Fig.3 RELATIVE INTENSITY VS.LEAD TEMPERATURE
(PULSED 20 mA; 300us
PULSE,10ms PERIOD)

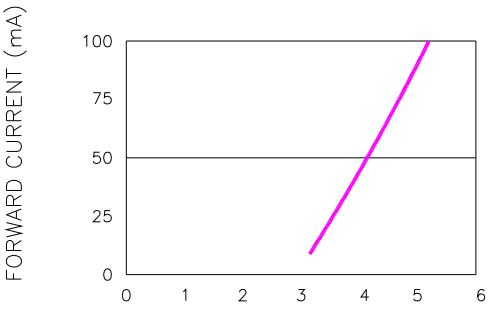

Fig.4 PEAK FORWARD VOLTAGE
VS.FORWARD(100us TEST PULSE,
1% DUTY CYCLE)

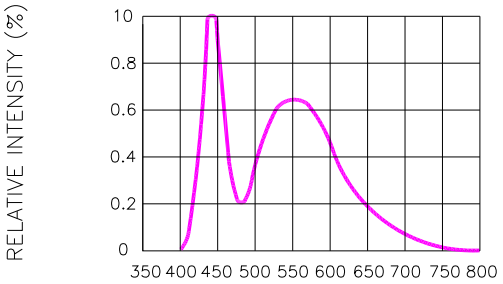

Fig.4 RELATIVE INTENSITY VS. WAVELENGTH

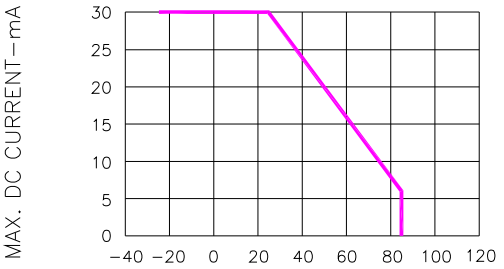

Fig.7 MAX. ALLOWABLE DC CURRENT
VS. AMBIENT TEMPERATURE

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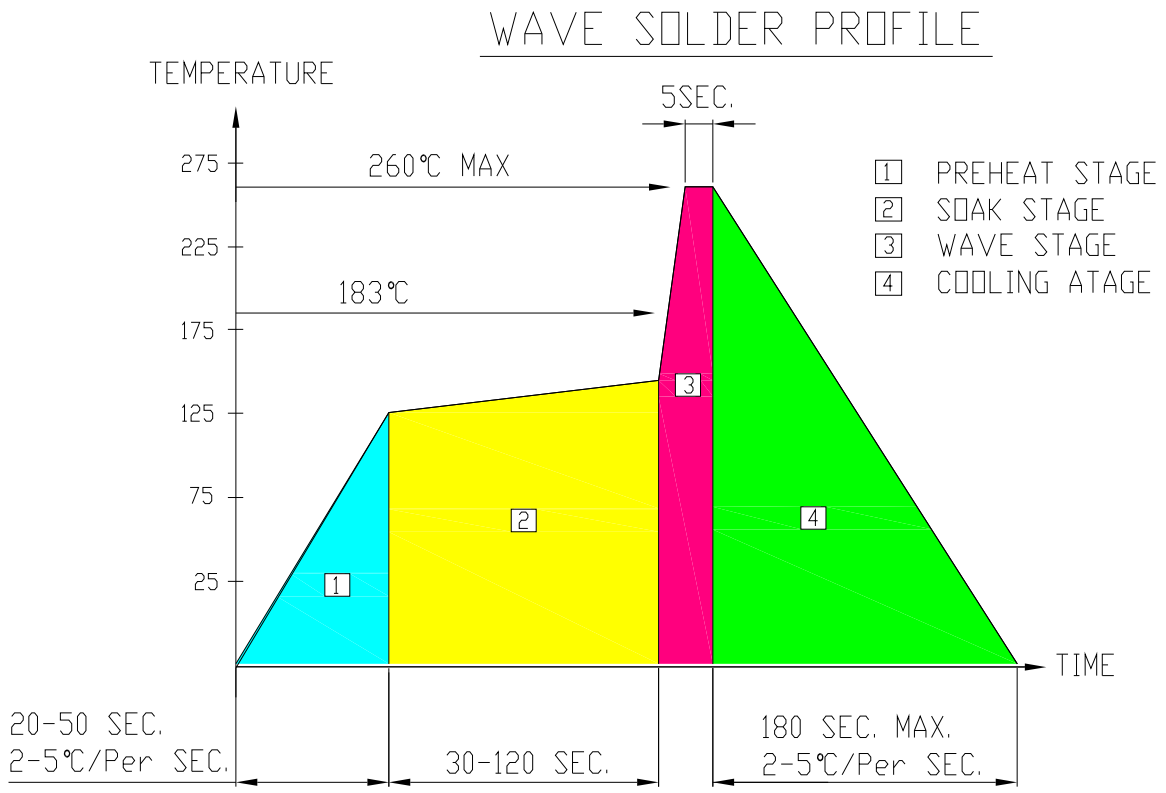
SOLDERING CONDITIONS – DISPLAY TYPE LED

● 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 ≦3 sec under 350℃.