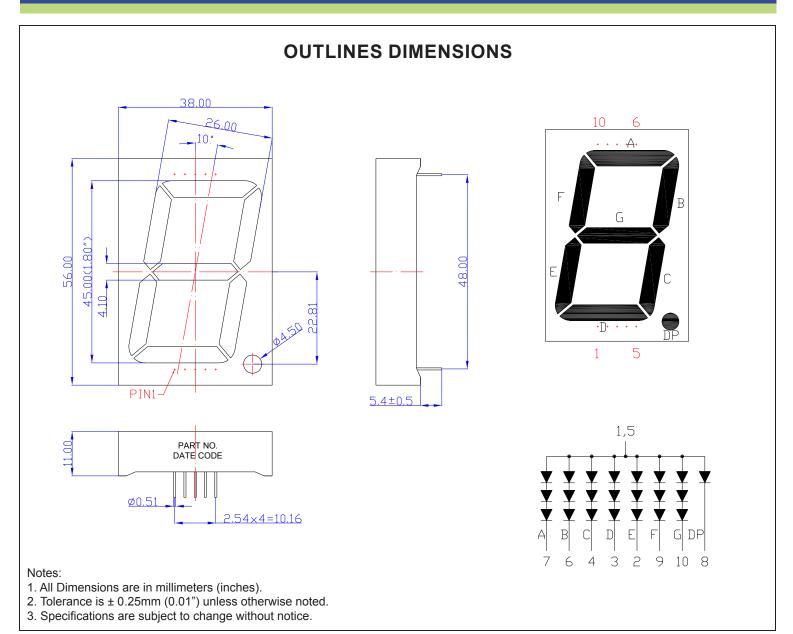


SPECIFICATIONS CDSA18W2W



Part Number	Chip Material	Color of Emission	Lens Type	Description	
CDSA18W2W	InGaN	White	White Segment	Common Anode	



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ABSOLUTE MAXIMUM RATINGS

(TA=25°C)

Parameter	Symbol	Max Rating	Unit	
Power Dissipation	Pb	78	mW	
Pulse Forward Current	lFP	60	mA	
Continuous Forward Current	lF	20	mA	
Reverse Voltage Segment	VR	5	V	
Operating Temperature Range	Topr	-25~+85	°C	
Storage Temperature Range	Тѕтс	-25~+85	°C	
		<u> </u>		

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

OPTICAL-ELECTRICAL CHARACTERISTICS

(TA=25°C)

Darameter	Symbol	Toot Condition	Value			Linit
Parameter		Test Condition	Min	Тур	Max	Unit
Luminous Intensity per segment	lv	I⊧ = 5mA	-	180	-	mcd
Forward Voltage per segment	VF	I _F = 5mA	-	8.7	-	V
Reverse Leakage Current	lR	V _R = 5V	-	-	10	μΑ
Chromaticity Coordinates	X	I _F = 5mA	-	0.285	1	-
Chromaticity Coordinates	Y	I _F = 5mA	-	0.275	-	-
Spectral Radiation Bandwidth	Δλ	I _F = 5mA	-	30	-	nm



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OPTICAL CHARACTERISTIC CURVES

(25 °C Free Air Temperature Unless Otherwise Specified)

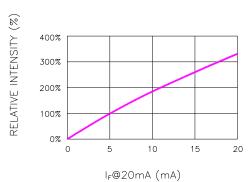
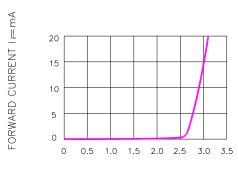
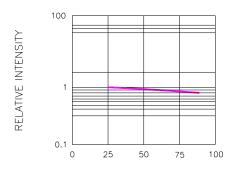


Fig. 1 RELATIVE INTENSITY VS. FORWARD CURRENT



FORWARD VOLTAGE (V)
Fig.2 FORWARD CURRENT VS. FORWARD VOLTAGE



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

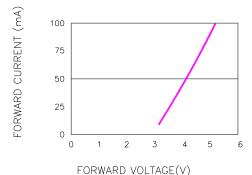


Fig.4 PEAK FORWARD VOLTAGE VS.FORWARD(100us TEST PULSE, 1% DUTY CYCLE)

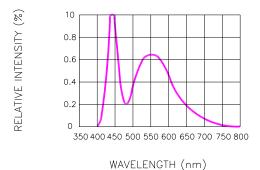
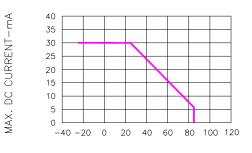


Fig.4 RELATIVE INTENSITY VS. WAVELENGTH



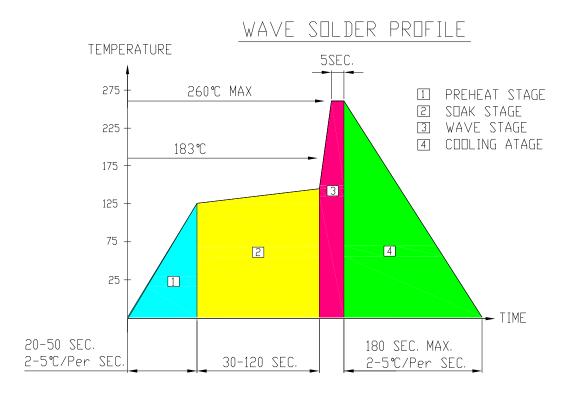
AMBIENT TEMPERATURE (TA)—°C
Fig.7 MAX. ALLOWABLE DC CURRENT
VS. AMBIENT TEMPERATURE

RoHS
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SOLDERING CONDITIONS – DISPLAY TYPE LED

RECOMMEND SOLDERING PROFILE



Note:

- Recommend pre-heat temperature of 105°C or less (as measured with a thermocouple attached to the LED pins) prior to immersion in the solder wave with a maximum solder bath temperature of 260°C
- Peak wave soldering temperature between 245°C ~ 225°C for 3 sec (5 sec max)
- No more than one wave soldering pass

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°C. The head of soldering iron cannot touch copper foil.



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