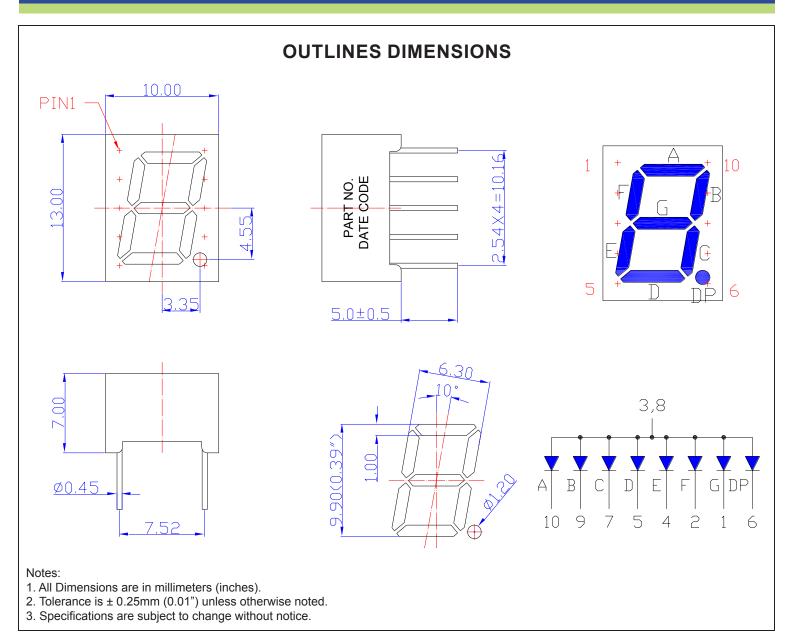


SPECIFICATIONS CDSA39B2WF



Part Number	Chip Material	Color of Emission	Lens Type	Description	
CDSA39B2WF	InGaN	Blue	White Segment	Common Anode	





ABSOLUTE MAXIMUM RATINGS

(TA=25°C)

Parameter	Symbol	Max Rating	Unit			
Power Dissipation	Pb	120	mW			
Pulse Forward Current	lFP	100	mA			
Continuous Forward Current	lF	30	mA			
Reverse Voltage Segment	VR	5	V			
Operating Temperature Range	Topr	-25~+85	°C			
Storage Temperature Range	Тѕтс	-25~+85	°C			
P = Pulse Width ≤ 10 ms, Duty Ratio ≤1/10. Soldering Condition: 260 °C/ 5sec						

OPTICAL-ELECTRICAL CHARACTERISTICS

(TA=25°C)

Deremeter	Symbol	Toot Condition	Value			Linit
Parameter		Test Condition	Min	Тур	Max	Unit
Luminous Intensity	lv	I _F = 20mA	-	40	-	mcd
Forward Voltage	VF	I _F = 20mA	-	3.0	4.0	V
Reverse Leakage Current	lR	V _R = 5V	-	-	10	μΑ
Dominant Wavelength	λD	I⊧ = 20mA	460	465	470	nm
Spectral Radiation Bandwidth	Δλ	I⊧ = 20mA	-	30	-	nm



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OPTICAL CHARACTERISTIC CURVES

(25 °C Free Air Temperature Unless Otherwise Specified)

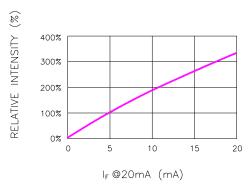
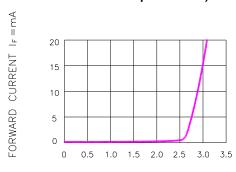
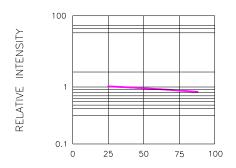


Fig. 1 RELATIVE INTENSITY VS. FORWARD CURRENT



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)

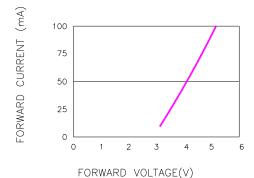


Fig.4 PEAK FORWARD VOLTAGE VS.FORWARD(100us TEST PULSE, 1% DUTY CYCLE)

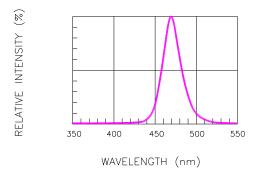
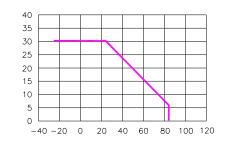


Fig.5 RELATIVE INTENSITY VS. WAVELENGTH



AMBIENT TEMPERATURE (TA)-°C

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



CURRENT-mA

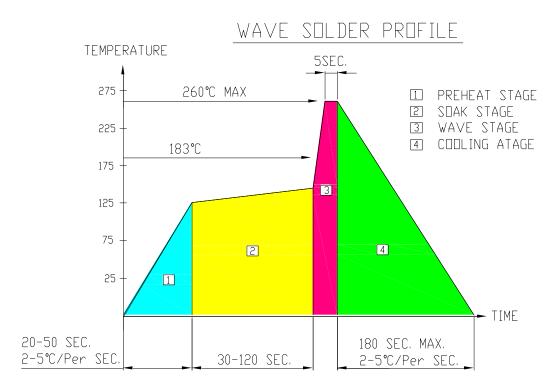
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SOLDERING CONDITIONS - DISPLAY TYPE LED

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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