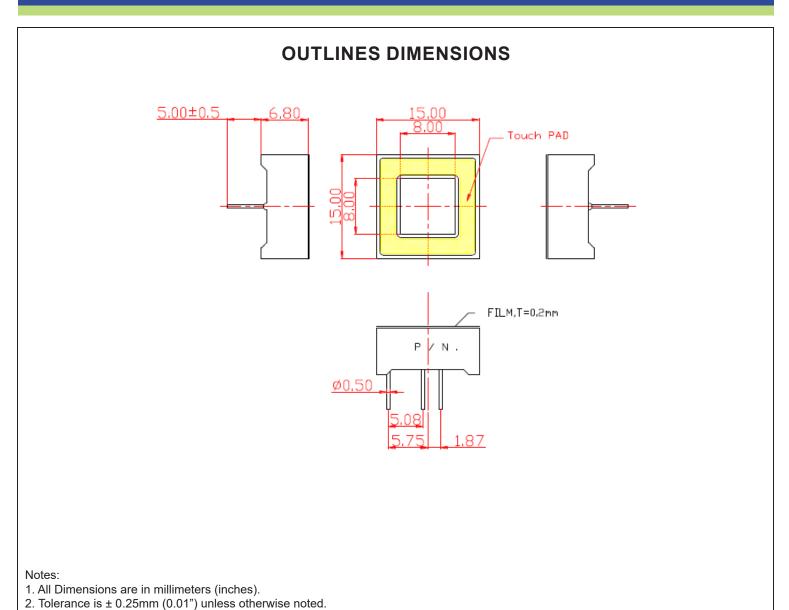


3. Specifications are subject to change without notice.

SPECIFICATIONS CTD5959B2WB



Part Number	Chip Material	Color of Emission	Lens Type	Description
CTD5959B2WB	InGaN	Blue	White	Touch Display



ChromeLED Corp. reserves the right to make changes at any time in order to supply the best product possible. The most current version of this document will always be available at: www.chromeled.com



ABSOLUTE MAXIMUM RATINGS

(TA=25°C)

Parameter	Symbol	Max Rating	Unit		
Power Dissipation	Pb	120	mW		
Continuous Forward Current (Per Dice)	lF	30	mA		
Peak Current (Per Dice)	lfP	100	mA		
Reverse Voltage (Per Dice)	VR	5	V		
Operating Temperature Range	Topr	-25~+85	°C		
Storage Temperature Range	Тѕтс	-25~+85	°C		
Hand Soldering Condition: 360 °C/ 3sec					

OPTICAL-ELECTRICAL CHARACTERISTICS

(TA=25°C)

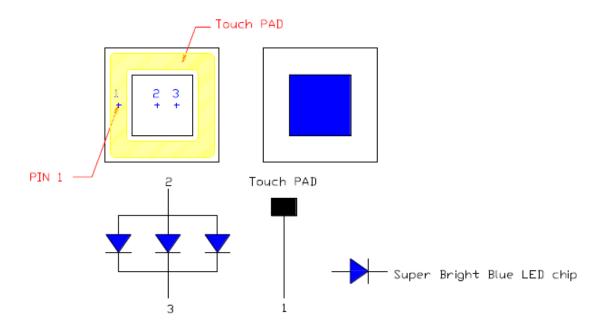
Deremeter	Symbol	Test Condition	Value			Lloit
Parameter			Min	Тур	Max	Unit
Luminous Intensity	lv	I _F = 20mA	-	60	-	mcd
Forward Voltage	VF	I _F = 20mA	1	3.2	4.0	V
Reverse Leakage Current	lR	V _R = 5V	-	-	10	μΑ
Dominant Wavelength	λD	I⊧ = 20mA	460	470	475	nm
Spectral Radiation Bandwidth	Δλ	I⊧ = 20mA	-	30	-	nm



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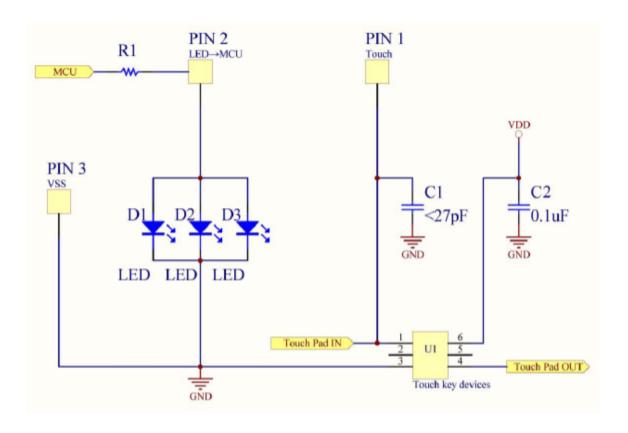


INTERNAL CIRCUIT DIAGRAMS





TYPICAL APPLICATION CIRCUITS



Internal Components are not customer accessible





OPTICAL CHARACTERISTIC CURVES

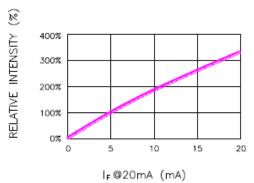
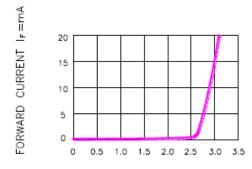
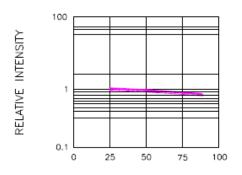


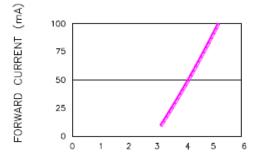
Fig.1 RELATIVE INTENSITY VS. FORWARD CURRENT



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



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



FORWARD VOLTAGE(V)

Fig.4 PEAK FORWARD VOLTAGE

VS.FORWARD(100us TEST PULSE,

1% DUTY CYCLE)

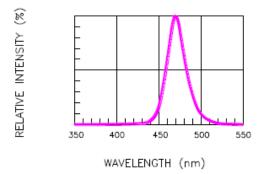


Fig.5 RELATIVE INTENSITY VS. WAVELENGTH



AMBIENT TEMPERATURE (TA)-*C
Fig.6 MAX. ALLOWABLE DC CURRENT
VS. AMBIENT TEMPERATURE

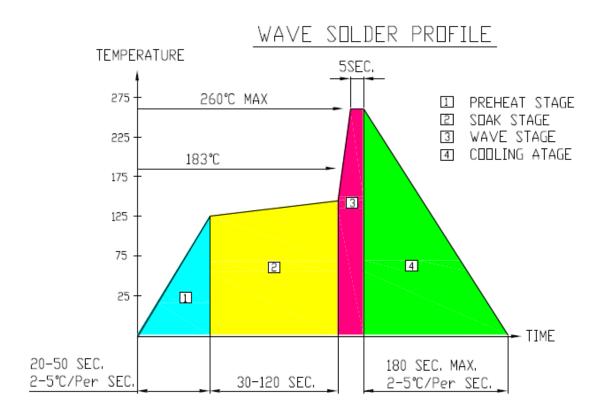


DC CURRENT-mA

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SOLDERING CHARACTERISTICS



NOTES

- 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
- 2. Peak wave soldering temperature between 245°C ~ 225°C for 3 sec (5 sec max)
- 3. 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

- 1. Customer must finish rework within 3 sec under 350°C
- 2. The head of soldering iron cannot touch copper foil

