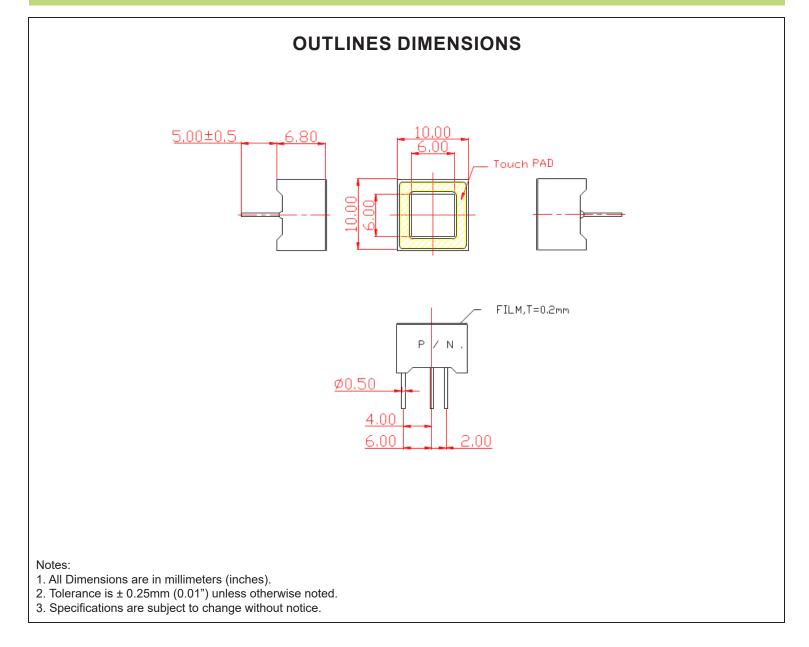


SPECIFICATIONS

CTD3939B2WB



Part Number	Chip Material	Color of Emission	Lens Type	Description
CTD3939B2WB	InGaN	Blue	White	Touch Display





ABSOLUTE MAXIMUM RATINGS

Parameter	Symbol	Max Rating	Unit	
Power Dissipation	PD	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

Value Symbol Test Condition Parameter Unit Min Max Тур Luminous Intensity I⊧ = 20mA Iv 60 mcd _ _ Forward Voltage VF I_F = 20mA 3.2 4.0 V -**Reverse Leakage Current** $V_R = 5V$ 10 IR _ μA -**Dominant Wavelength** λD I⊧ = 20mA 460 470 475 nm Spectral Radiation Bandwidth I⊧ = 20mA Δλ 30 _ _ nm



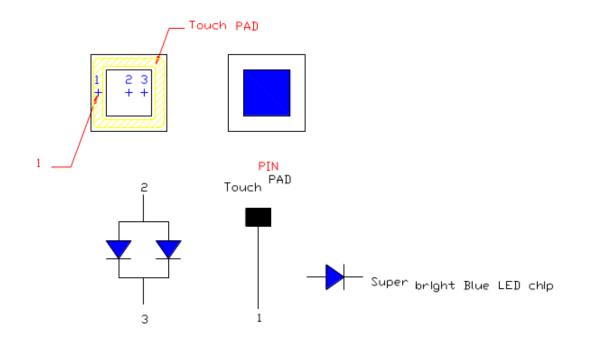
ChromeLED Corp. reserves the right to make changes at any time in order to supply the best product possible. The most current version of this document will always be available at: www.chromeled.com

(TA=25°C)

(TA=25°C)



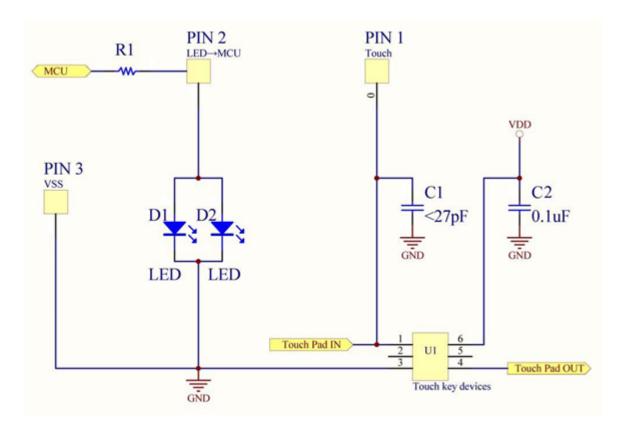
INTERNAL CIRCUIT DIAGRAMS







TYPICAL APPLICATION CIRCUITS

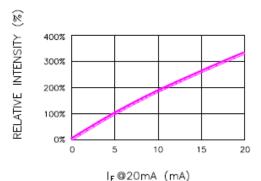


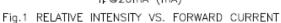
Internal Components are not customer accessible

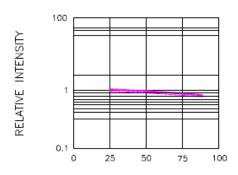


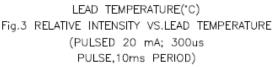


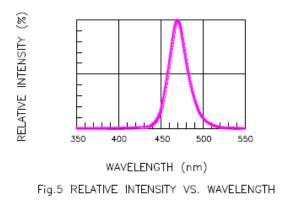
OPTICAL CHARACTERISTIC CURVES

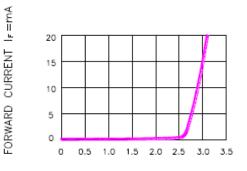




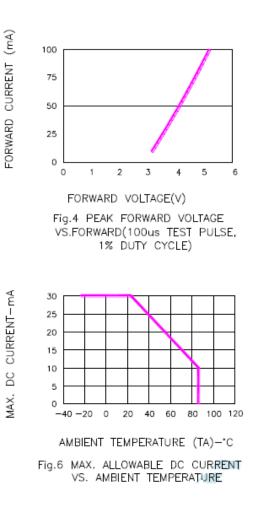








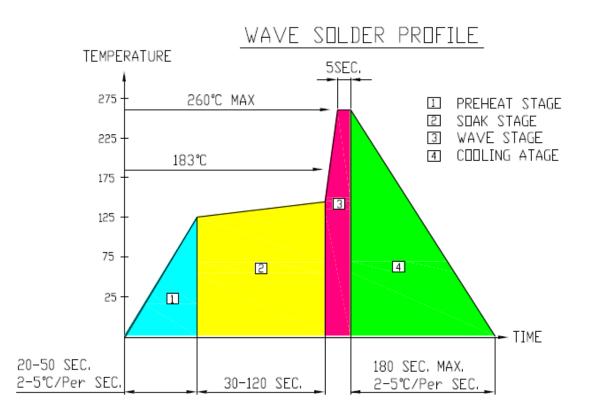
FORWARD VOLTAGE (V) Fig.2 FORWARD CURRENT VS. FORWARD VOLTAG







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

