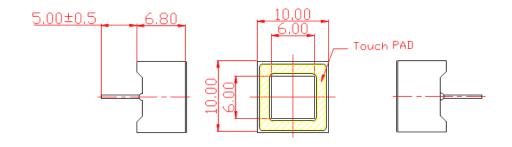
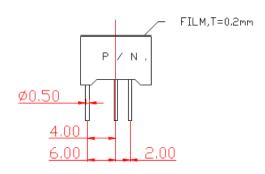


SPECIFICATIONS CTD3939R2WB

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	
CTD3939R2WB	InGaAIP	Red	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	70	mW	
Continuous Forward Current (Per Dice)	lF	25	mA	
Peak Current (Per Dice)	lfP	90	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)

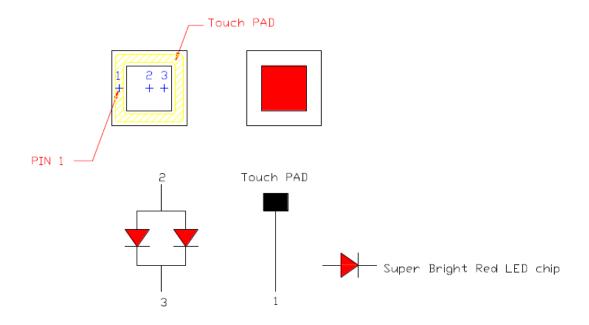
Parameter	Symbol	Toot Condition	Value			Unit
Parameter		Test Condition	Min	Тур	Max	Unit
Luminous Intensity	lv	I _F = 20mA	ı	40	-	mcd
Forward Voltage	VF	I _F = 20mA	1	2.0	2.6	V
Reverse Leakage Current	lR	V _R = 5V	1	1	10	μΑ
Peak Wavelength	λР	I _F = 20mA	1	632	-	nm
Dominant Wavelength	λD	I⊧ = 20mA	-	624	-	nm
Spectral Radiation Bandwidth	Δλ	I⊧ = 20mA	-	20	-	nm



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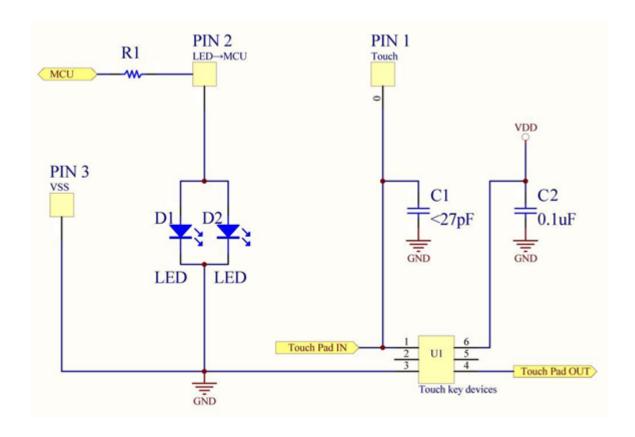


INTERNAL CIRCUIT DIAGRAMS





TYPICAL APPLICATION CIRCUITS



Internal Components are not customer accessible





OPTICAL CHARACTERISTIC CURVES

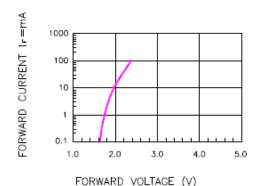
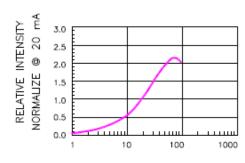


Fig.1 FORWARD CURRENT VS. FORWARD VOLTAGE



FORWARD CURRENT (mA)
Fig.2 RELATIVE INTENSITY VS. FORWARD CURRENT

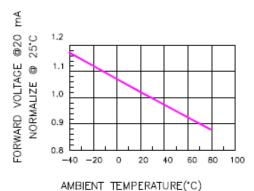


Fig.3 FORWARD VOLTAGE VS. TEMPERATURE

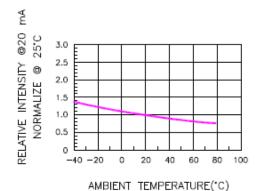


Fig.4 RELATIVE INTENSITY VS. TEMPERATURE

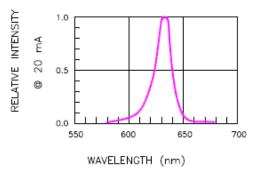
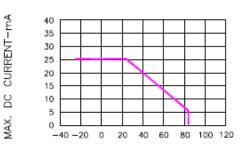


Fig.5 RELATIVE INTENSITY VS. WAVELENGTH



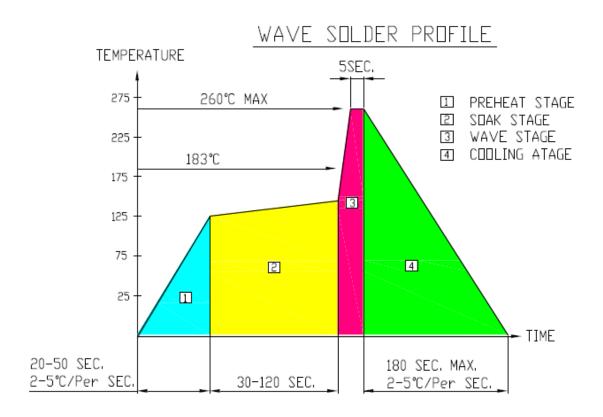
AMBIENT TEMPERATURE (TA)—*C Fig.6 MAX. ALLOWABLE DC CURRENT VS. AMBIENT TEMPERATURE



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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

