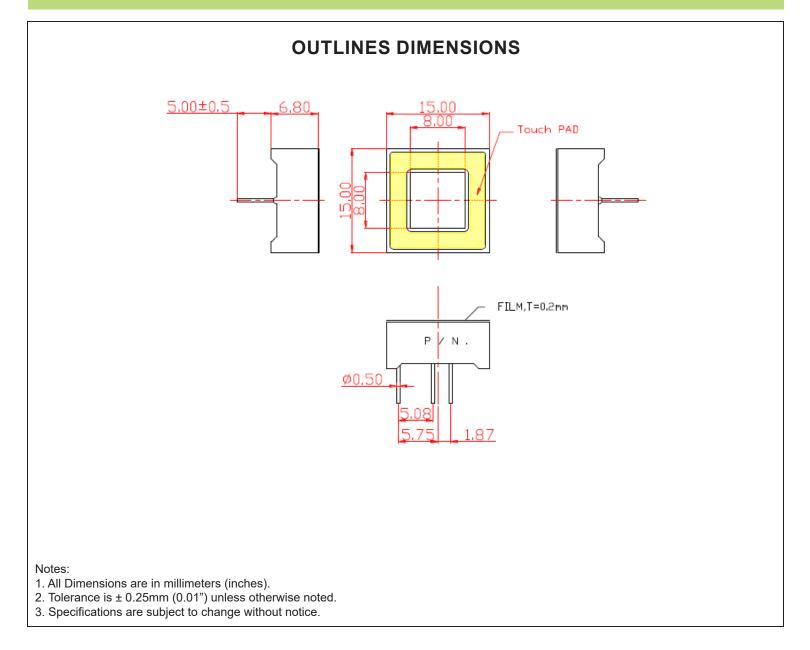


SPECIFICATIONS

CTD5959Y2WB



Part Number	Chip Material	Color of Emission	Lens Type	Description
CTD5959Y2WB	InGaAIP	Yellow	White	Touch Display





ABSOLUTE MAXIMUM RATINGS

Parameter	Symbol	Max Rating	Unit	
Power Dissipation	PD	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

Value Symbol Parameter Test Condition Unit Min Max Тур Luminous Intensity I⊧ = 20mA Iv 50 mcd _ _ Forward Voltage I_F = 20mA VF 2.0 2.6 V -**Reverse Leakage Current** $V_R = 5V$ IR _ 10 μA -Peak Wavelength λP I_F = 20mA 593 nm -_ **Dominant Wavelength** I⊧ = 20mA λD 590 _ nm _ Spectral Radiation Bandwidth Δλ I_F = 20mA 20 _ nm _



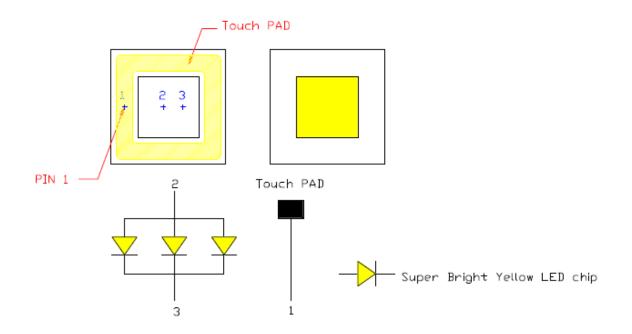
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(TA=25°C)

(TA=25°C)



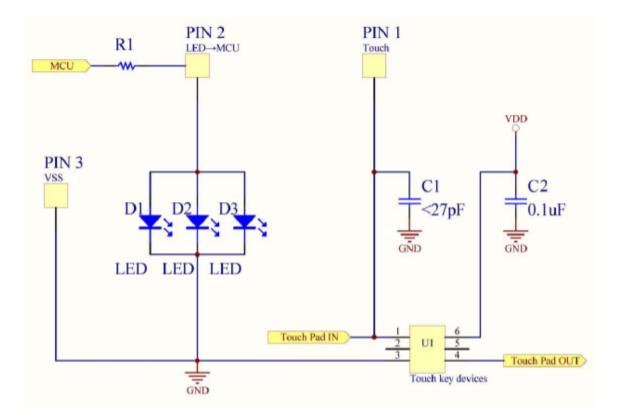
INTERNAL CIRCUIT DIAGRAMS







TYPICAL APPLICATION CIRCUITS



Internal Components are not customer accessible

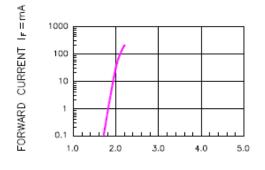


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OPTICAL CHARACTERISTIC CURVES



FORWARD VOLTAGE (V) Fig.1 FORWARD CURRENT VS. FORWARD VOLTAGE

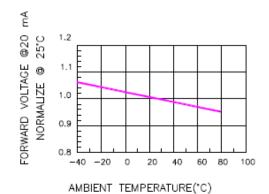


Fig.3 FORWARD VOLTAGE VS. TEMPERATURE

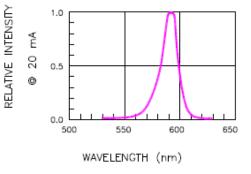
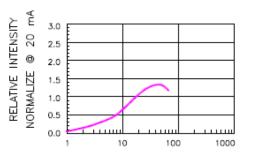


Fig.5 RELATIVE INTENSITY VS. WAVELENGTH



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

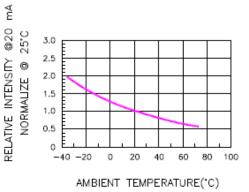


Fig.4 RELATIVE INTENSITY VS. TEMPERATURE

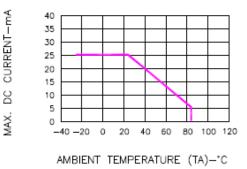
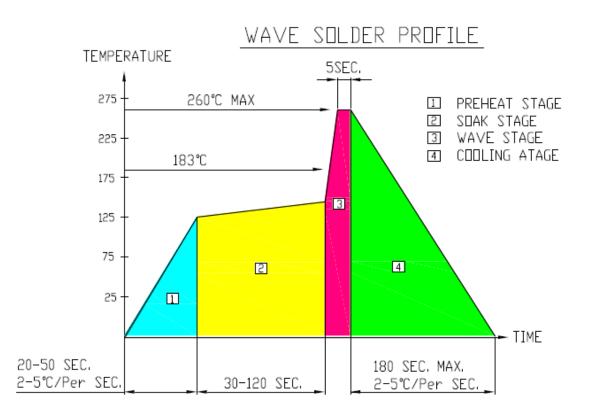


Fig.6 MAX. ALLOWABLE DC CURRENT VS. AMBIENT TEMPERATURE





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

