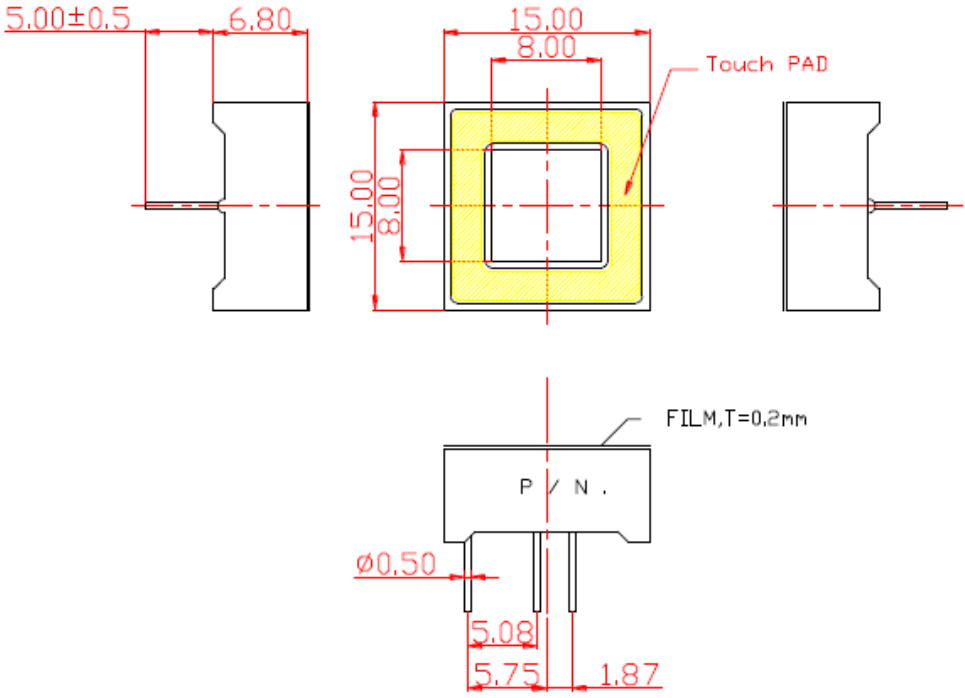


SPECIFICATIONS **CTD5959W2WB**
OUTLINES DIMENSIONS


- 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
CTD5959W2WB	InGaN	White	White	Touch Display



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ABSOLUTE MAXIMUM RATINGS
(TA=25°C)

Parameter	Symbol	Max Rating	Unit
Power Dissipation	P _D	78	mW
Continuous Forward Current (Per Dice)	I _F	20	mA
Peak Current (Per Dice)	I _{FP}	60	mA
Reverse Voltage (Per Dice)	V _R	5	V
Operating Temperature Range	T _{OPR}	-40~+85	°C
Storage Temperature Range	T _{STG}	-40~+85	°C
Hand Soldering Condition: 360 °C/ 3sec			

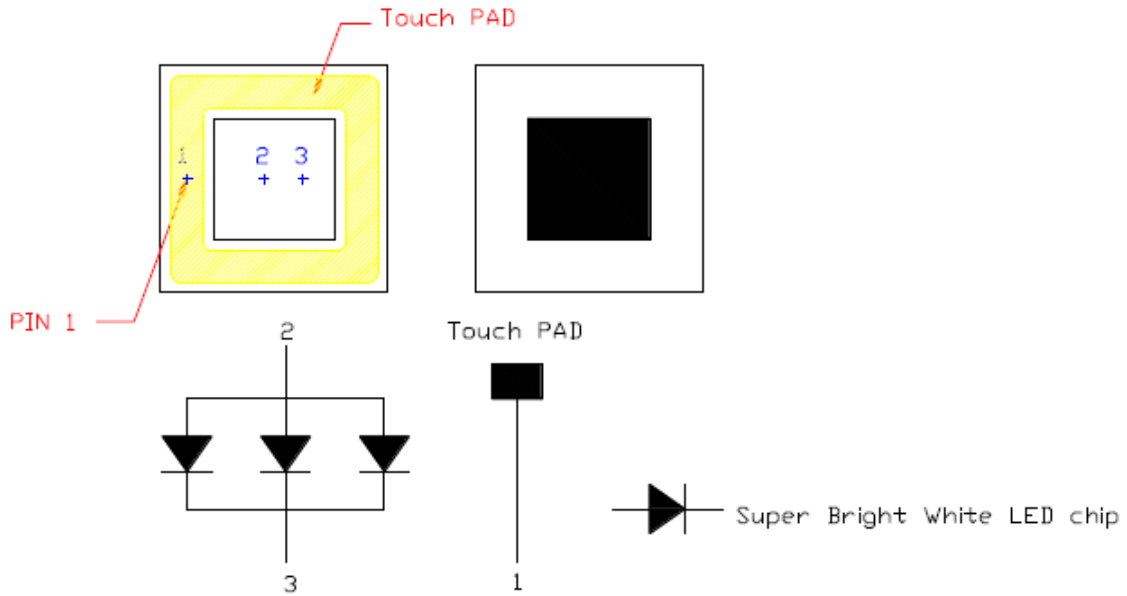
OPTICAL-ELECTRICAL CHARACTERISTICS
(TA=25°C)

Parameter	Symbol	Test Condition	Value			Unit
			Min	Typ	Max	
Luminous Intensity	I _v	I _F = 5mA	-	50	-	mcd
Forward Voltage	V _F	I _F = 5mA	-	2.8	3.6	V
Reverse Leakage Current	I _R	V _R = 5V	-	-	10	μA
CIE Coordinates	X	I _F = 5mA	-	0.28	-	-
	Y	I _F = 5mA	-	0.27	-	-
Spectral Radiation Bandwidth	Δλ	I _F = 5mA	-	30	-	nm



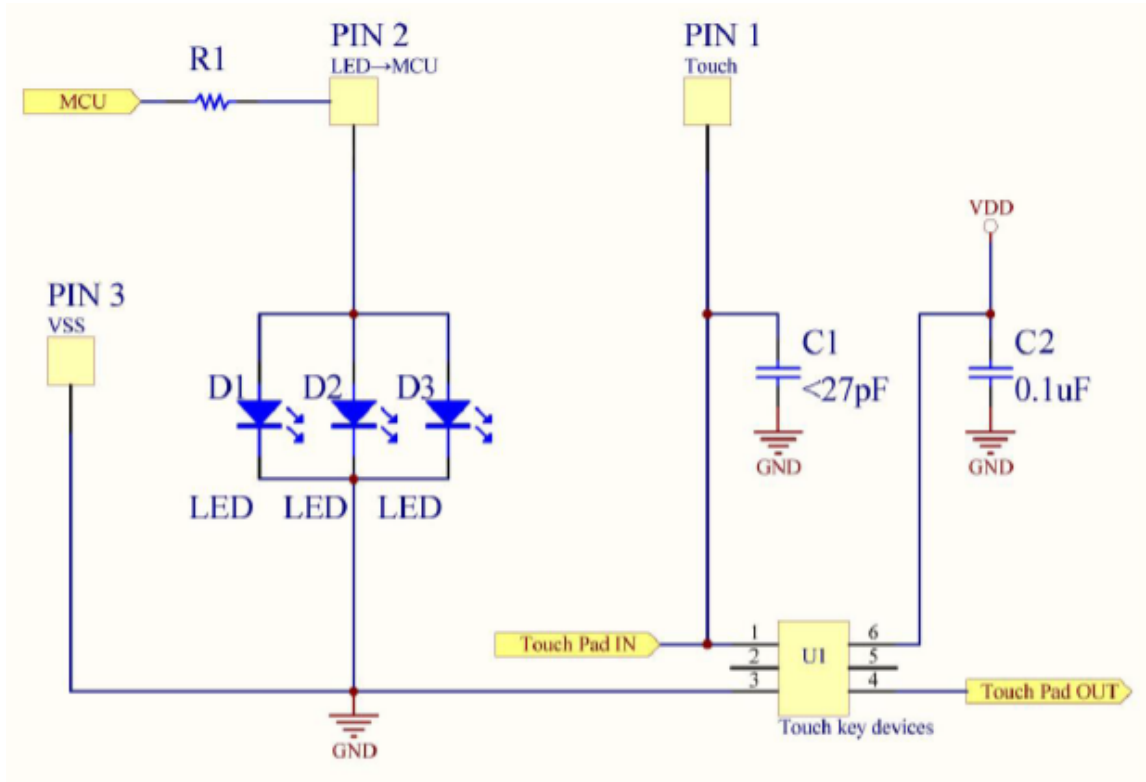
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INTERNAL CIRCUIT DIAGRAMS



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TYPICAL APPLICATION CIRCUITS

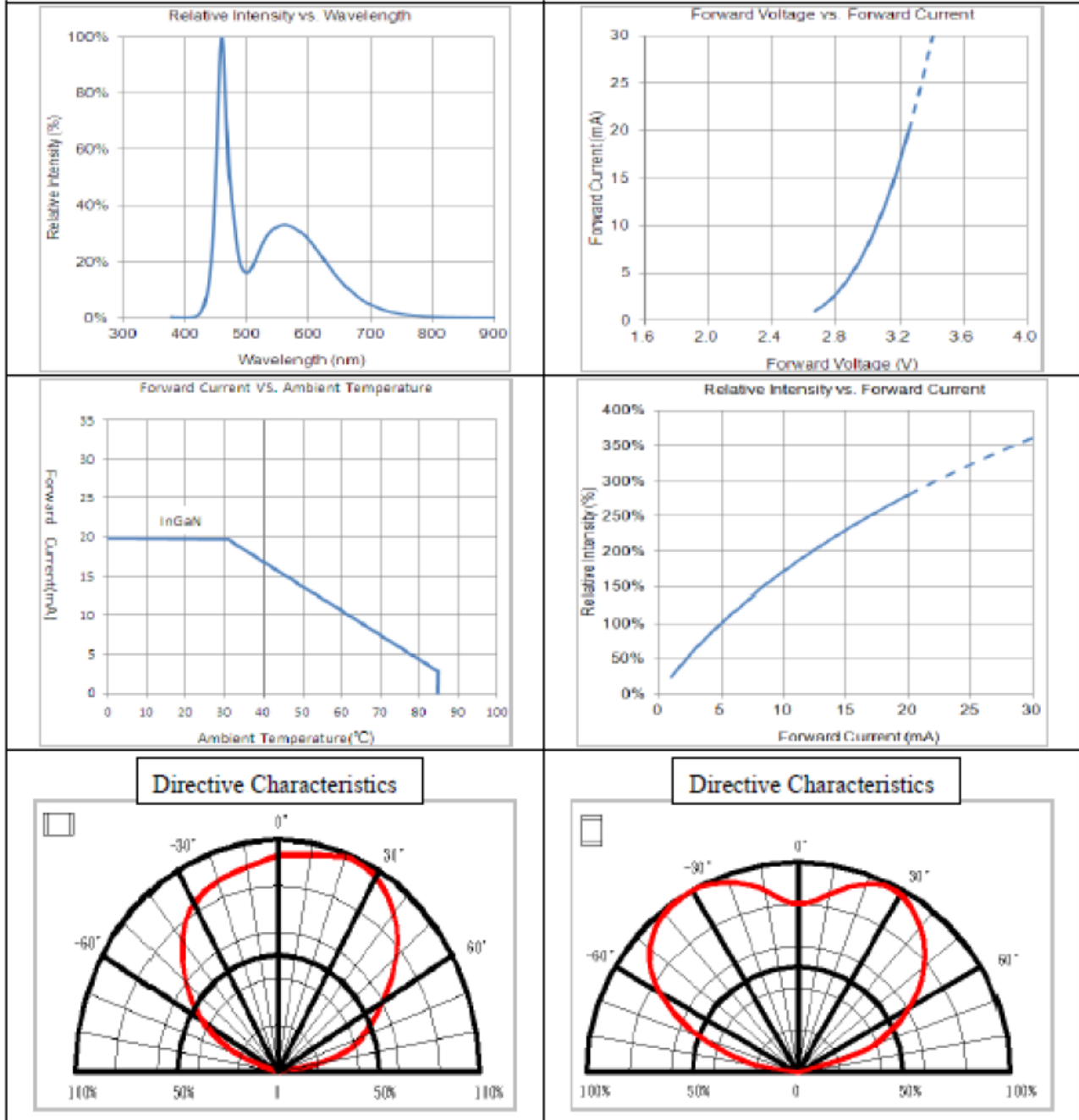


Internal Components are not customer accessible

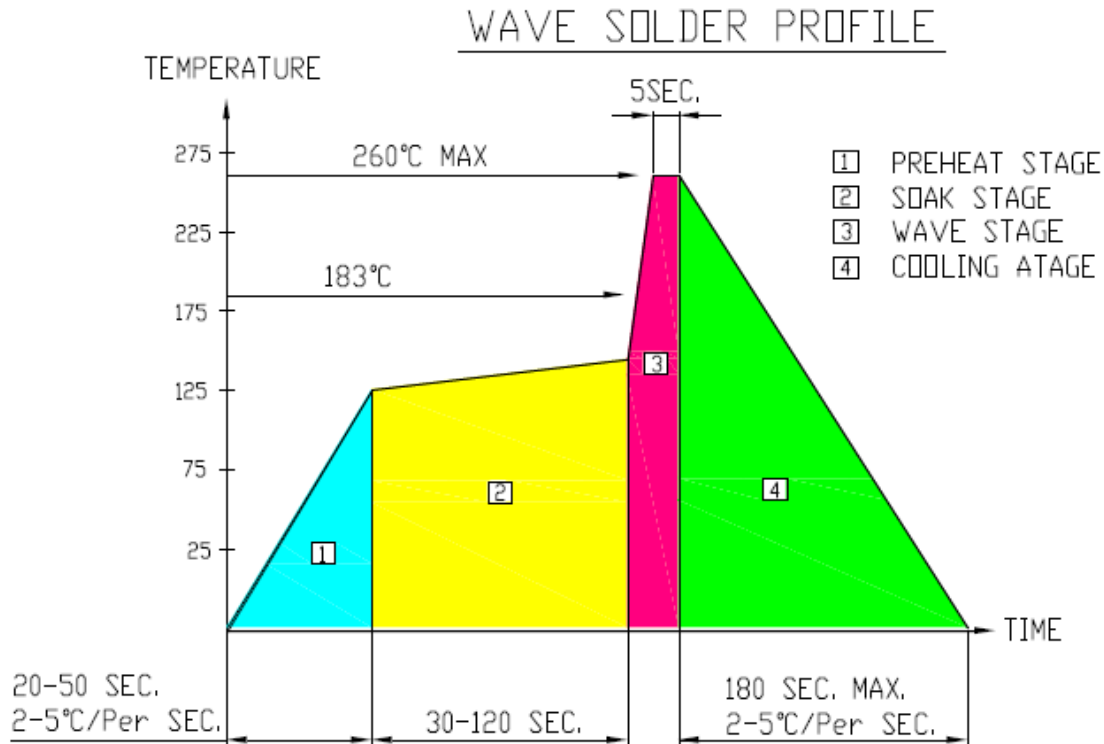


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OPTICAL CHARACTERISTIC CURVES



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SOLDERING CHARACTERISTICS

NOTES

1. 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



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