



PARA LIGHT ELECTRONICS CO., LTD.

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DATA SHEET

PART NO. : L-C19DJYCT

REV : <u>A / 0</u>

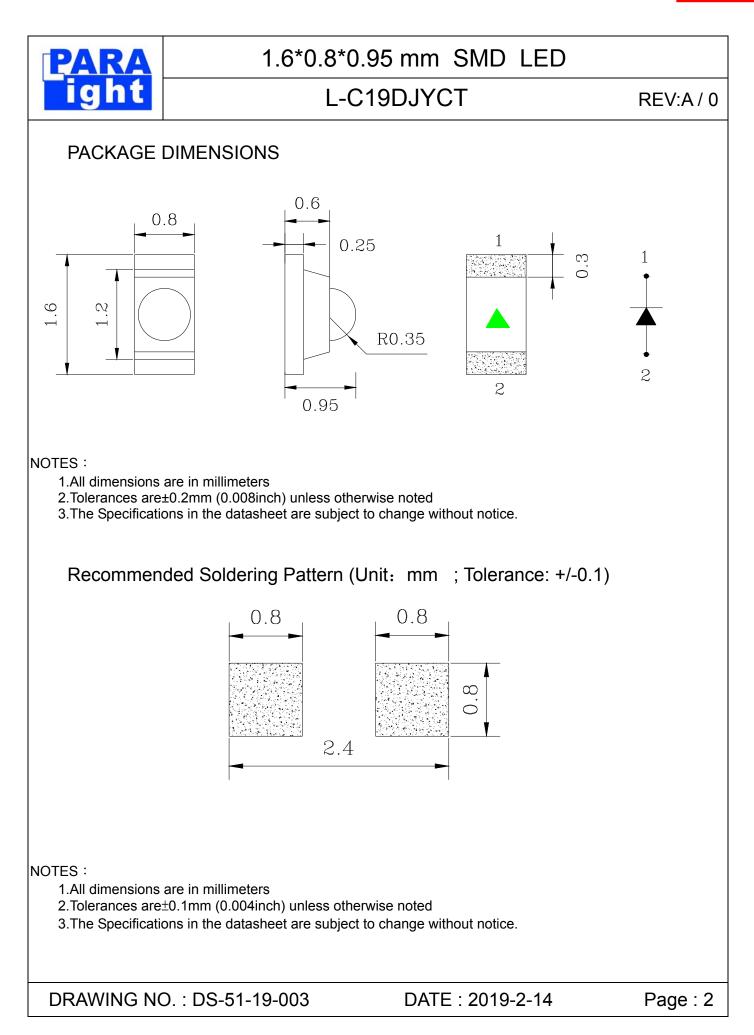
CUSTOMER'S APPROVAL :

DCC:

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DRAWING NO. : DS-51-19-003

DATE : 2019-2-14





1.6*0.8*0.95 mm SMD LED

L-C19DJYCT

REV:A/0

FEATURES

- * 1.6*0.8*0.95 mm SMD LED
- * Long operating life
- * Low Power Consumption
- * Low voltage DC operated

CHIP MATERIALS

- * Dice Material : AlGaInP
- * Light Color : Yellow
- * Lens Color : Water Clear

ABSOLUTE MAXIMUM RATING : (Ta = 25°C)

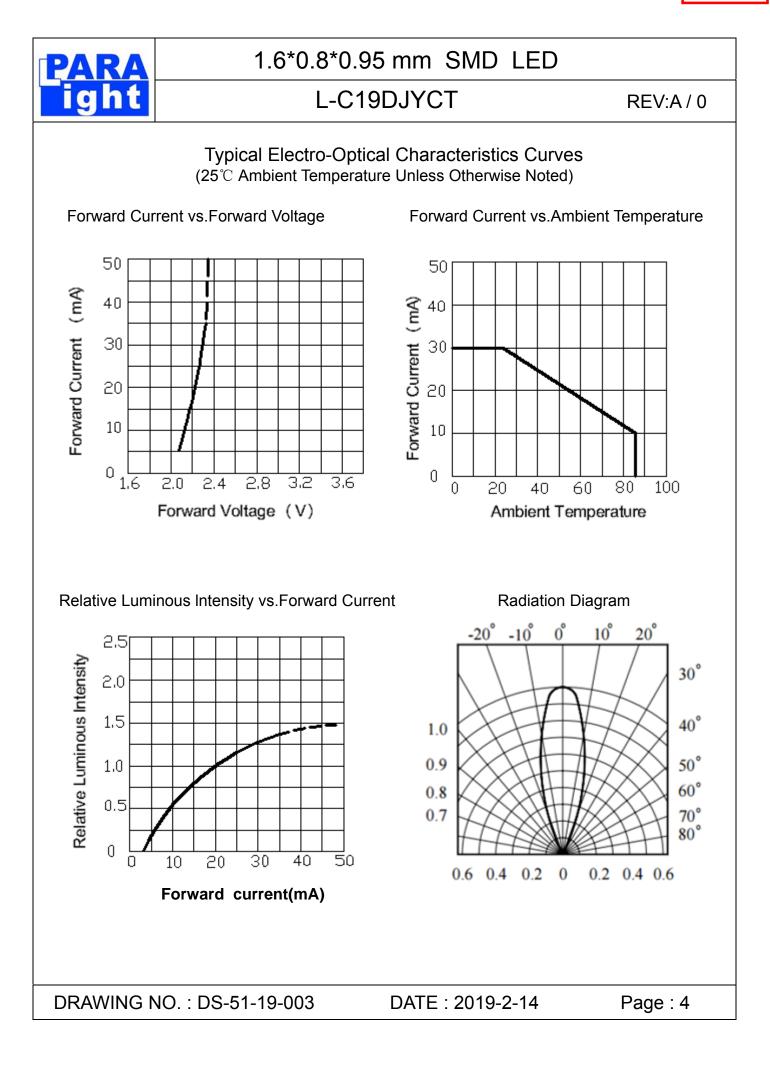
SYMBOL	PARAMETER	Rating	UNIT
lf	Forward Current	30	mA
lfp	Peak Forward Current (1/10 duty cycle 0.1ms)	100	mA
VR	Reverse Voltage	5	V
ESD	Electrostatic Discharge Threshold(HBM)	2000	V
Topr	Operating Temperature Range	-40 ~ + 90	°C
Tstg	Storage Temperature Range	-40 ~ + 90	°C
Tsld	Reflow Soldering	260 ℃ for	10 secs

ELECTRO-OPTICAL CHARACTERISTICS : (Ta = 25°C)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Test Condition
Luminous Intensity	lv	200	300		mcd	IF=20mA
Viewing Angle	201/2		30		deg	IF=20mA
Spectral Line Half-Width	Δλ		35		nm	IF=20mA
Dominant Wavelength	λD		590		nm	IF=20mA
Forward Voltage	VF	1.9		2.4	V	IF=20mA
Reverse Current	IR			10	μA	VR=5V

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Bin Range of Luminous Intensity					
Bin Code	Min.	Max.	unit	Condition	
L1	200	400	mcd	IF = 20mA	
Note: Tolerance of Luminous Intensity: +15%					

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Bin Range of Dominant Wavelength					
Bin Code	Min.	Max.	unit	Condition	
Y1	587	589		n IF = 20mA	
Y2	589	591			
Y3	591	593	nm		
Y4	593	595			

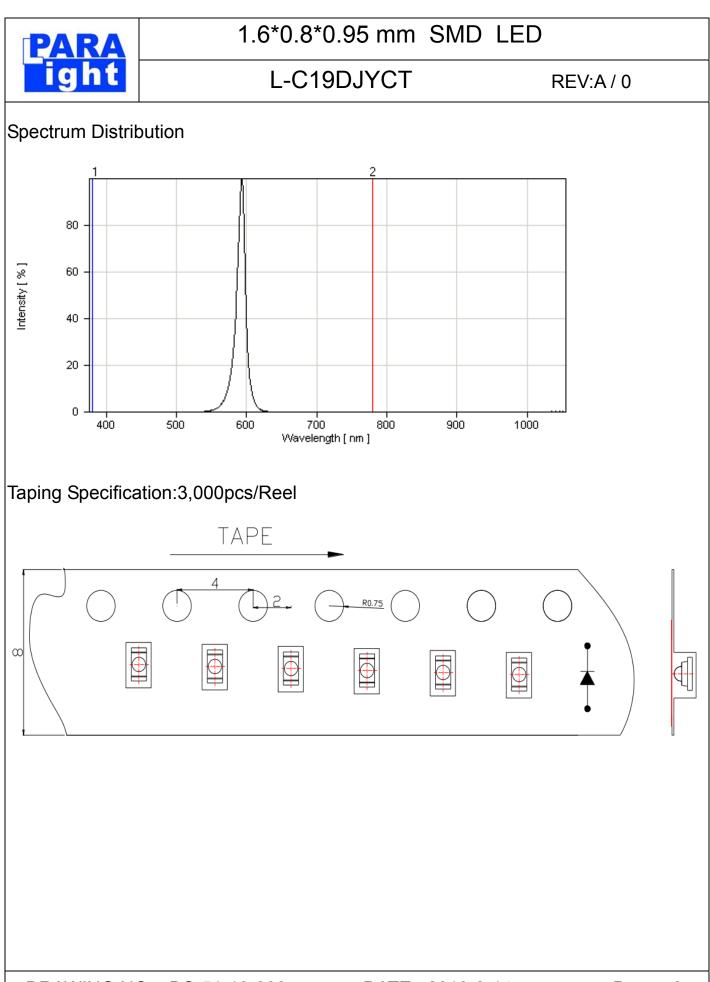
Note: Tolerance of Dominant Wavelength: ±1nm

Bin Range of Forward Voltage						
Bin Code	Min.	Max.	unit	Condition		
V1	1.9	2.0				
V2	2.0	2.1				
V3	2.1	2.2	V	IF = 20mA		
V4	2.2	2.3				
V5	2.3	2.4				

Note: Tolerance of Forward Voltage: ±0.1V

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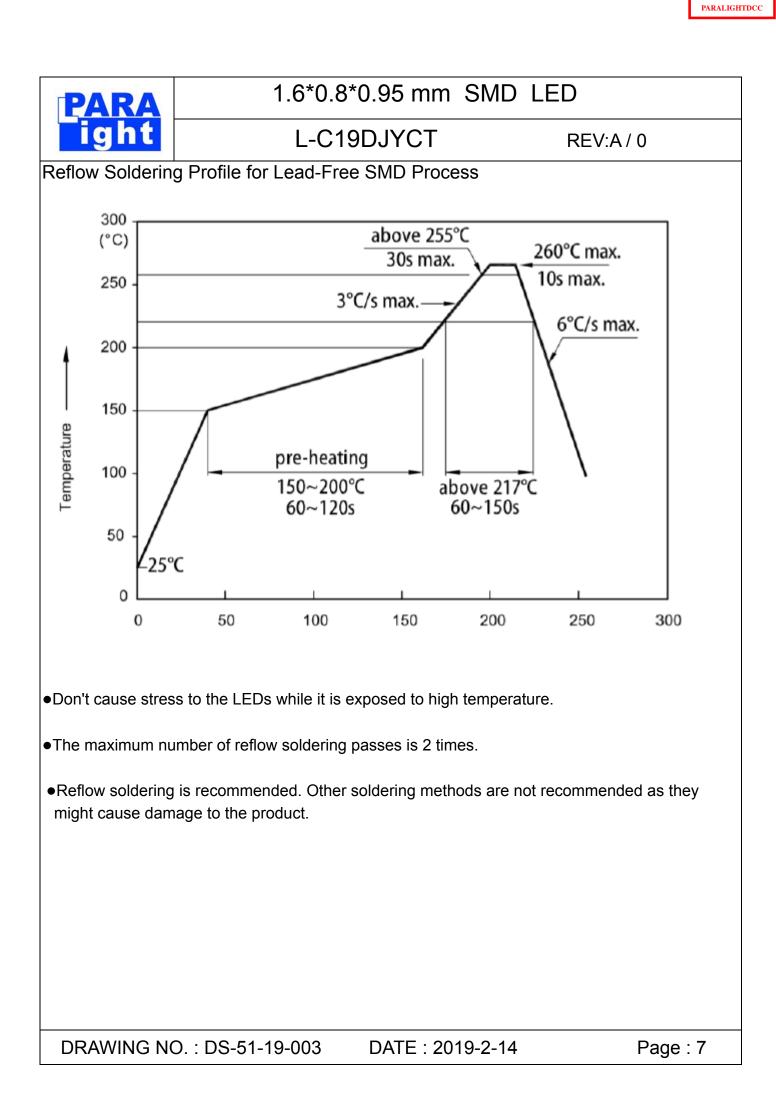


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Precautions

1.Storage

• Moisture proof and anti-electrostatic package with moisture absorbent material is used, to keep moisture to aminimum.

•Before opening the package, the product should be kept at 30° C or less and humidity less than 60% RH, and be used within a year.

•After opening the package, the product should be stored at 30° C or less and humidity less than 10° RH, and be soldered within 24 hours (1day). It is recommended that the product be operated at the workshop condition of 30° C or less and humidity less than 60° RH.

● If the moisture absorbent material has fade away or the LEDs have exceeded the storage time, baking treatment should be performed based on the following condition: (70±5)°C for 24 hours.

2.Static Electricity

Static electricity or surge voltage damages the LEDs. Damaged LEDs will show some unusual characteristic such as the forward voltage becomes lower, or the LEDs do not light at the low current. even not light.

All devices, equipment and machinery must be properly grounded. At the same time, it is recommended that wrist bands or anti-electrostatic gloves, anti-electrostatic containers be used when dealing with the LEDs.

3.Vulcanization

LED curing is due to sulfur being in bracket and the +1 price of silver in the chemical reaction generated Ag2S in the process. It will lead to the capacity of reflecting of silver layer reducing, light color temperature drift and serious decline ,seriously affecting the performance of the product. So we should take corresponding measures to avioding vulcanization, such as to avoid using sulphurvolatile substances and keeping away from high sulphur content of the material.

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