



PARA LIGHT ELECTRONICS CO., LTD.

11F, No.8, Jiankang Rd,Zhonghe Dist,New Taipei City 253, Taiwan

Tel: 886-2-2225-3733

Fax: 886-2-2225-4800

E-mail: para@para.com.tw

[http:// www.paralighttaiwan.com](http://www.paralighttaiwan.com)

DATA SHEET

PART NO. : L-C5042PDC-ZGY

REV : A / 0

CUSTOMER'S APPROVAL : _____

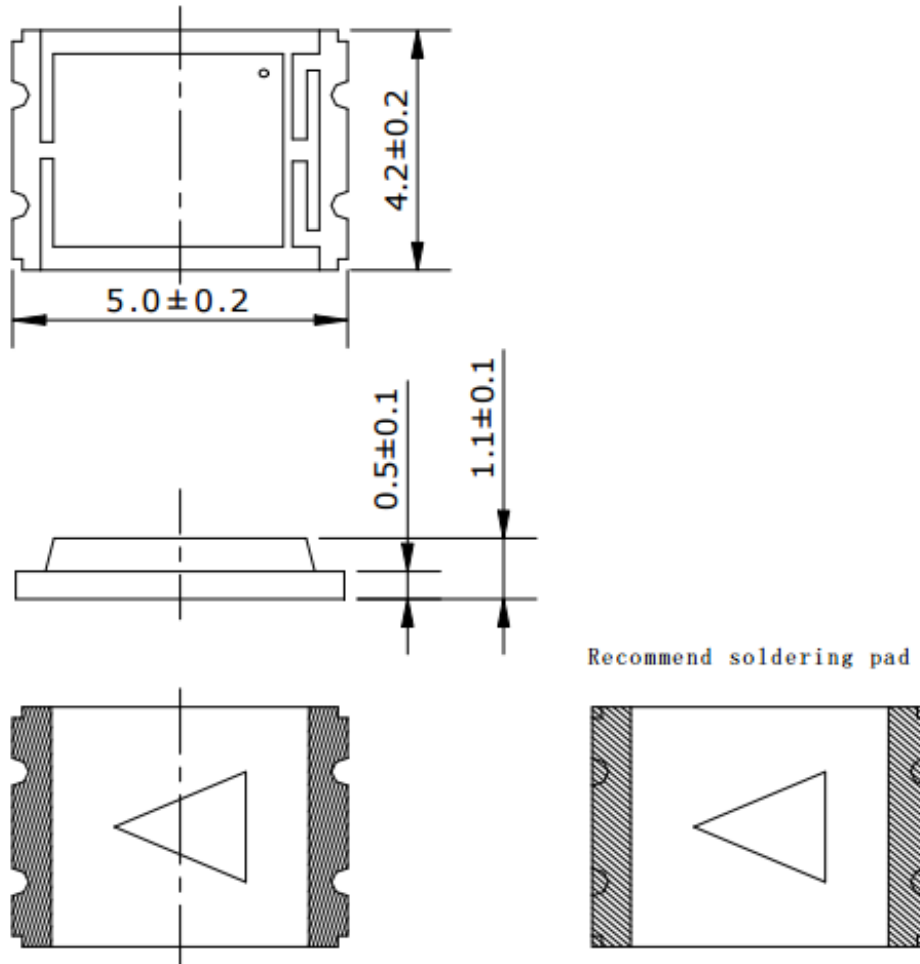
DCC : _____

DRAWING NO. : DS-52-19-020

DATE : 2019-7-16

Page : 1

PACKAGE DIMENSIONS



Notes:

1. All dimensions are in millimeters
2. Tolerances unless dimensions ± 0.1 mm

FEATURES

- *Fast response time
- * High photo sensitivity
- * Pb free
- * This product itself will remain within RoHS compliant version. Compliance with EU REACH
- *Compliance Halogen Free. (Br < 900 ppm , Cl < 900 ppm , Br+Cl < 1500 ppm)



5.0*4.2*1.1 mm SMD LED

L-C5042PDC-ZGY

REV:A / 0

ABSOLUTE MAXIMUM RATING : (Ta = 25°C)

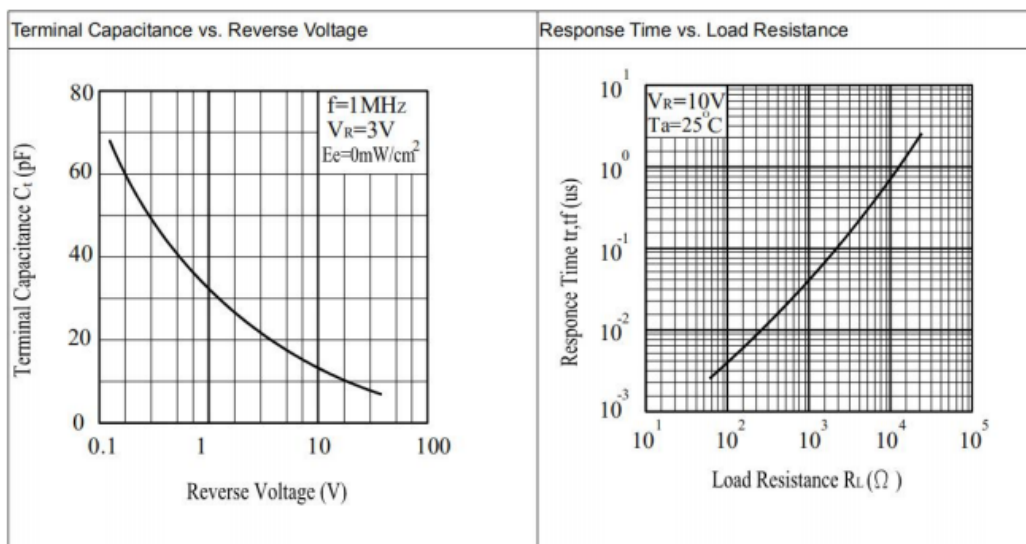
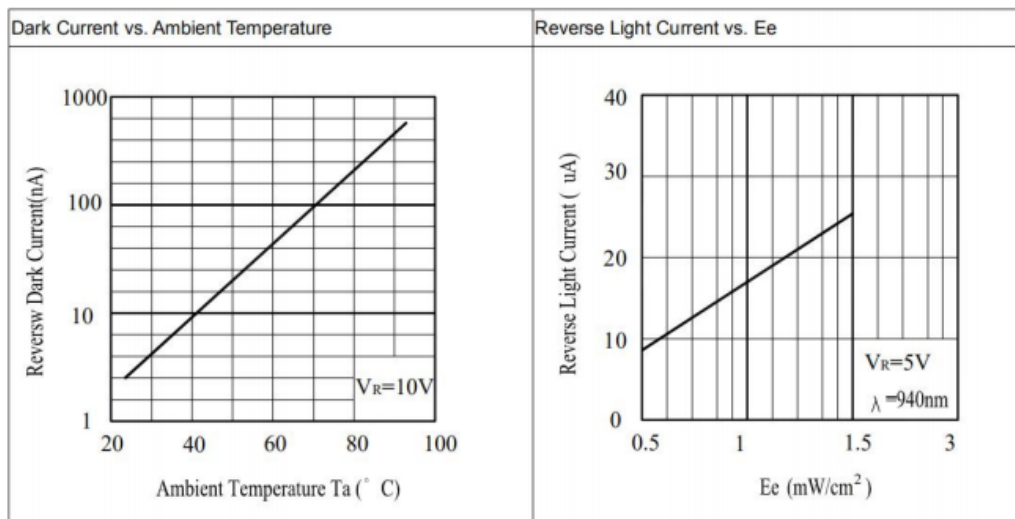
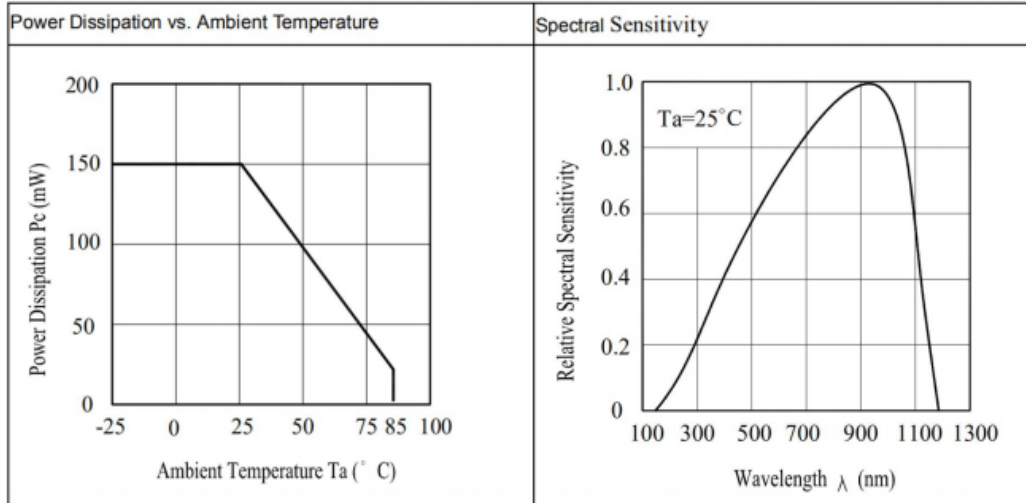
SYMBOL	PARAMETER	Rating	UNIT
PD	Power Dissipation	150	mW
VR	Reverse Voltage	32	mA
Topr	Operating Temperature Range	-25 ~ + 85	°C
Tstg	Storage Temperature Range	-40 ~ + 100	°C
Tsol	Lead Soldering Temperature (2mm form body for 5 seconds)	260	°C

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

Parameter	Symbol	Condition	Min.	Typ.	Max.	Units
Open-Circuit Voltage	VOC	Ee=5mW/cm ² λp=940nm	--	0.35	--	V
Short-Circuit Current	ISC	Ee=1mW/cm ² λp=940nm	--	35	--	μA
Reverse Light Current	IL	Ee=1mW/cm ² λp=940nm VR=5V	17	25	--	μA
Reverse Dark Current	ID	Ee=0mW/cm ² VR=10V	--	5	30	nA
Reverse Breakdown Voltage	BVR	Ee=0mW/cm ² IR=100μA	32	170	--	V
Rise Time	tr	VR=10V RL=1000Ω	--	50	--	nS
Fall Time	tf	VR=10V RL=1000Ω	--	50	--	nS
Total Capacitance	Ct	Ee=0mW/cm ² VR=5V f=1MHz	--	25	--	pF
Rang Of Spectral Bandwidth	λ0.5	--	400	--	1100	nm
Wavelength of Peak Sensitivity	λP	--	--	940	--	nm

Typical Electro-Optical Characteristics Curves

25°C Ambient Temperature Unless Otherwise Noted



Rank

Parameter	Symbol	Condition	Min.	Max.	Unit
Bin1	I _L	Ee=1mW/cm2 λp=870nm VR=5V	17	27	μA
Bin2	I _L	Ee=1mW/cm2 λp=940nm VR=5V	37	47	μA
Bin3	I _L	Ee=1mW/cm2 λp=940nm VR=5V	47	57	μA

Note:

- *Measurement Uncertainty of Forward Voltage: ±0.1V
- *Measurement Uncertainty of Photographic Intensity: ±10%
- *Measurement Uncertainty of Dominant Wavelength ±1.0nm

Packing Quantity Specification

1. 1000Pcs/1Volume , 1Volume/1Bag
2. 10Boxes/1Carton

Notes

1 · Above specification may be changed without notice. CHAULIGHT will reserve authority on material change for above specification. 2 · When using this product, please observe the absolute maximum ratings and the instruction for using outlined in these specification sheets. CHAULIGHT assumes no responsibility for any damage resulting from use of the product which does not comply with the absolute maximum ratings and the instructions included in these specification sheets. 3 · These specification sheets include materials protected under copyright of CHAULIGHT corporation. Please don't reproduce or cause anyone to reproduce them without CHAULIGHT 's consent.