

FDC-T065PG-6T5STZS

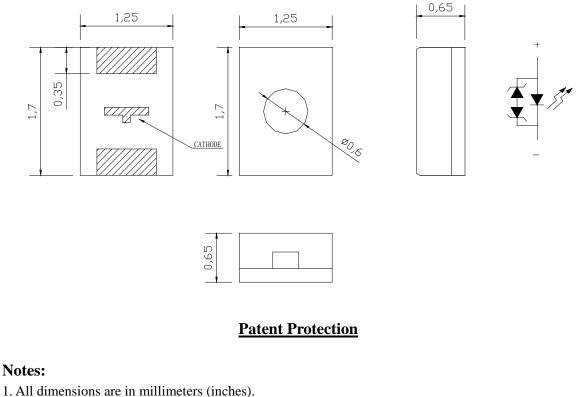
Features

- Low Power Consumption
- Wide Viewing Angle
- Various Colors
- Meet ROHS Green Product.

Applications

• Backlight and Indicator

Package Dimensions



- Tolerance is ±0.3mm unless otherwise noted.
- 3. Specifications are subject to change without notice
- 4. This drawing is only for reference, not as a basis for the actual structure.

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Form No : Approved By: Rev : VB.3 Prepared By: Sales@FantasyLeds.com

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S	Selection Guide						
	Part No	Lens Type	Dice	Emitted Color			
	FDC-T065PG-6T5STZS	Black	InGaN	Pure Green			

Electrical / Optical Characteristics At Ta=25 °C

Symbol	Parameter	Min.	Тур.	Max.	Unit	Test Condition
Iv	Luminous Intensity		45	72	mcd	IF=5mA
λ Peak	eak Peak Emission Wavelength		530		nm	IF=5mA
入d	入 d Dominant Wavelength		525		nm	IF=5mA
$ ext{ } \Delta \lambda$	入 Spectral Line Half-Width		15		nm	IF=5mA
VF Forward Voltage		2.55	3.1	3.3	V	IF=5mA
IR	IR Reverse Current			10	uA	VR=5V

Note:

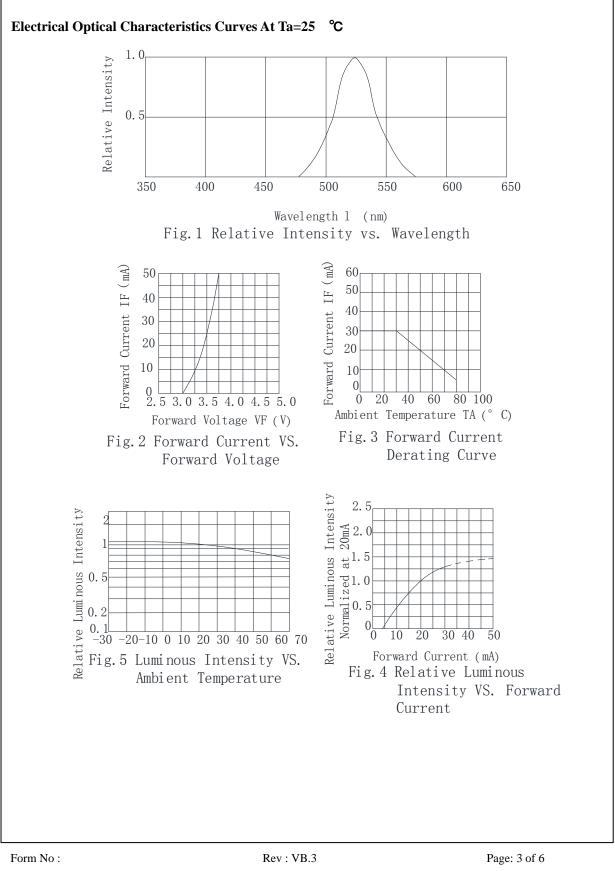
Absolute Maximum Ratings At Ta=25°C

Parameter	Pure Green	Unit	
Power Dissipation	75	mW	
Peak Forward Current[1]	80	mA	
Continuous Forward Current	25 n		
Dreading Linear From50℃	0.4	mA/°C	
Reverse Voltage	5		
Electrostatic Discharge Threshold(HBM)	2000 V		
Operating Temperature Range	-55°C to + 85°C		
Storage Temperature Range	-55℃ to + 85℃		
Soldering Condition	260°C For5 Seconds		

Note:

1. 1/10DutyCycle,0.1msPulseWidth







Bin Range Of Luminous Intensity

Symbol	Bin Code	Min.	Max.	Unit	Condition
	L	11.2	18	mcd	IF=5mA
T	М	18	28		
Iv	Ν	28	45		
	Р	45	72		

Bin Range Of Forward Voltage (+/-0.15)

Symbol Symbol	Bin Code	Min.	Max.	Unit	Condition
	VO	2.55	2.70		
	VA	2.70	2.85		
VF	VB	2.85	3.00	V	IF=5mA
	VC	3.00	3.15		
	VD	3.15	3.30		



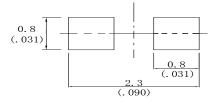
Process Note

1. Seller gives no other assurances regarding the ability of to withstand ESD. It is recommended to use a wrist band or anti-electrostatic glove when handling the LED. All devices, equipment and machinery must be properly grounded.

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- 2. Reflow soldering should not be done more than two times.
- 3. Do not stress LED when soldering, and do not warp the circuit board after soldering
- 4. While using Iron, Power dissipation of Iron should be smaller than 25W, and temperature should be controllable. The work should be finished within 2 sec under 320°C for once only.

Recommended Soldering Pad Dimensions



Package Note :

- 1. The LEDs should be used within a year.
- 2. The LEDs should be kept in $5 \sim 30^{\circ}$ C and 60% RH for less.
- 3. The LEDs should be used within 24 hours, or else should be kept a 5~30℃ and 30% RH or less. And LEDs should be used within 7 days after opening the package.



Reliability Test Items Conditions

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Classification	Test Item	Test Conditions	Test hours	Result
	Operation Life	Connect with a power IF=5mA Ta=Under room temperature	1000Hrs	0/20
Enduronee	High Temperature High Humidity	Ta=+65 °C±5 °C RH=90%-95%	240Hrs	0/20
Endurance Test	High Temperature Storage	High Ta= $+85^{\circ}C\pm5^{\circ}C$	1000Hrs	0/20
	Low Temperature Storage	Low Ta=-35°C±5°C Test time=1000hrs	1000Hrs	0/20
	Temperature Cycling	-45°C∼+105°C 15min 5min 15min	300 Cycles	0/20
Environmental	Thermal Shock	-35°C∼±5°C∼+85°C∼±5°C 5min 10sec 5min	300 Cycles	0/20
Test	Solder Resistance	Preheating: 120°C-150°C, within 2 minutes. Operation heating : 260°C (Max.), within 5 seconds (Max.)	5Cycles	0/20

Judgment criteria of failure for the reliability

Measuring items	Symbol	Measuring conditions	Judgment criteria for failure
Forward voltage	VF(V)	IF=5mA	Over U×1.2
Reverse current	Ir(µA)	Vr=5V	Over U×2
Luminous intensity	Iv(mcd)	IF=5mA	Below S×0.5

Note: 1.U means the upper limit of specified characteristics. S means initial value.

2.Meansurment shall be taken between 2 hours after the test pieces have been returned to normal ambient conditions after completion of each test.