



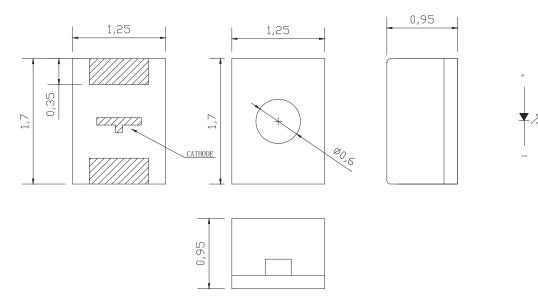
Features

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

Applications

• Backlight and Indicator

Package Dimensions



Patent Protection

Notes:

- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is ± 0.3 mm 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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Part No	Lens Type	Dice	Emitted Color
FDC-T095G-6TKT5NTDF	Black	InGaN	Green

Electrical / Optical Characteristics At Ta=25 °C

Symbol	Parameter		Тур.	Max.	Unit	Test Condition
Iv	Luminous Intensity		11.2	28.0	mcd	IF=5mA
入 Peak	Peak Emission Wavelength		570		nm	IF=5mA
λd	Dominant Wavelength		571.0		nm	IF=5mA
Δλ	Spectral Line Half-Width		15		nm	IF=5mA
VF	Forward Voltage	1.7	2.1	2.3	V	IF=5mA
IR	Reverse Current			10	uA	VR 5V

Note:

Absolute Maximum Ratings At Ta=25℃

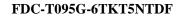
Parameter	Green	Unit
Power Dissipation	75	mW
Peak Forward Current[1]	80	mA
Continuous Forward Current	30	mA
Dreading Linear From50°C	0.4	mA/℃
Reverse Voltage	5	V
Electrostatic Discharge Threshold(HBM)	rge Threshold(HBM) 2000	
Operating Temperature Range	-55°C to + 85°C	
Storage Temperature Range	-55°C to + 85°C	
Soldering Condition	260°C For5 Seconds	

Note:

 $1.\ 1/10 Duty Cycle, 0.1 ms Pulse Width$

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Electrical Optical Characteristics Curves At Ta=25 °C

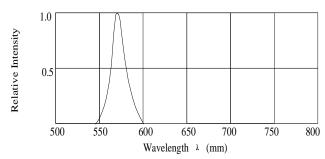
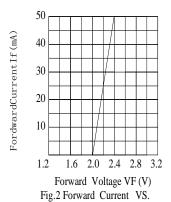
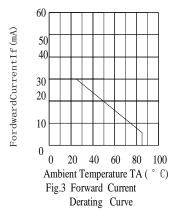
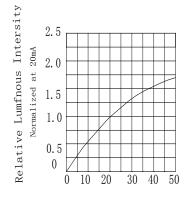


Fig.1 Rekative Intensity vs. Wavekength



Forward Voltage





Forward Current (mA) Fig.4 Relative Luminous Intensity vs. Forward Current

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Bin Range Of Luminous Intensity

Symbol	Bin Code	Min.	Max.	Unit	Condition
Iv	J	4.5	7.2	mcd	I _F =5mA
	K	7.2	11.2		
	L	11.2	18.0		
	M	18.0	28.0		

Bin Range Of Forward Voltage

Symbol	Bin Code	Min.	Max.	Unit	Condition
	V2	1.7	1.9		
VF	V3	1.9	2.1	V	I _F =5mA
	V4	2.1	2.3		

Notes:

- 1. Tolerance of Luminous Intensity +/-20 $\!\%$
- 2. Tolerance of Forward Voltage $\pm -0.15V$
- 3. Tolerance of the Dominate Wavelength +/- 2nm
- 4. The Luminous Intensity is measured with the led excluded the black lens cover.

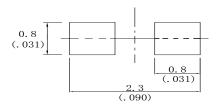
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Process Note

- 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.
- 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 $5\sim30^{\circ}$ C and 60% RH for less.
- 3. The LEDs should be used within 24 hours, or else should be kept a 5~30°C and 30% RH or less. And LEDs should be used within 7 days after opening the package.

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Reliability Test Items Conditions

Classification	Test Item Test Conditions		Test hours	Result
	Operation Life	Connect with a power IF=5mA Ta=Under room temperature	1000Hrs	0/20
F .	High Temperature High Humidity	Ta=+65°C±5°C RH=90%-95%	240Hrs	0/20
Endurance Test	High Temperature Storage	High Ta=+85°C±5°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	V _F (V)	I _F =5mA	Over U×1.2
Reverse current	Ir(µA)	V _R =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.

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