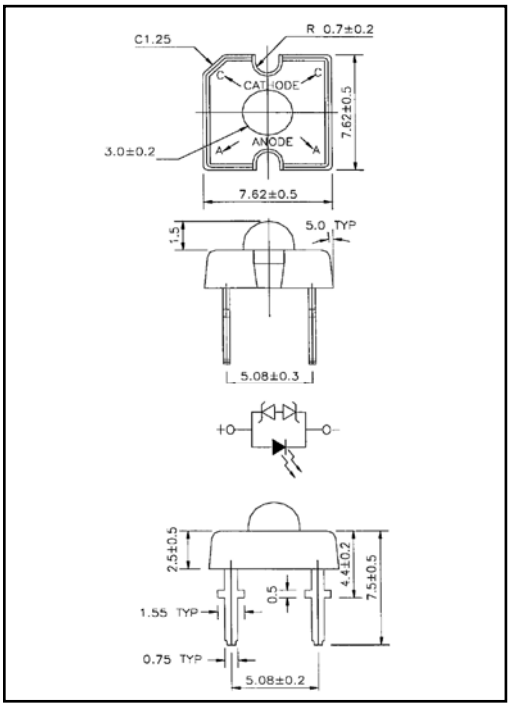

Notes: 1. All dimensions in millimeters
2. An epoxy meniscus may extend 1.5mm(0.059") down leads
3. Tolerances unless dimensions ±0.25mm

AND-T4C-4N

InGaN Ultra Bright White Power LED

Features

- High Flux Output
- Low Profile
- Low Thermal Resistance
- Low Power Consumption
- The phosphor filled in the reflector converts the blue emission of InGan chip to ideal white
- The product itself will remain within RoHS compliant versions
- Wide viewing angles 60º
- Typical chromaticity coordinates x=0.29, y=0.30
- ESD-withstand voltage: up to 4KV

Maximum Ratings (T_a = 25°C)

Parameter	Symbol	Rating	Units
Continuous Forward Current	I_F	30	mA
Peak Forward Current	I_{FP}	100	mA
Reverse Voltage	V_R	5	V
Operating Temperature	T_{opr}	-40 ~ +85	°C
Storage Temperature	T_{stg}	-40 ~ +100	°C
Soldering Temperature(T=5 sec)	T_{sol}	260 ± 5	ºC
Power Dissipation	P_d	100	mW
Zener Reverse Current	I_z	100	mA
Electrostatic Discharge	ESD	4000	V

Electro-Optical Characteristics (T_a = 25°C)

Parameter	Symbol	Condition	Minimum	Typical	Maximum	Unit
Forward Voltage	V_F	I_F = 30 mA	–	3.6	4.0	V
Reverse Current	I_R	V_R = 5 V	–	–	10	mA
Total Flux	ϕ_V	I_F = 30 mA	2250	3600	–	mlm
Viewing Angle	2θ 1/2	I_F = 30 mA	–	60	–	deg
Chromaticity Coordinates	x	I_F=30mA	–	0.29	–	
	y		–	0.30	–	–
Zener Reverse Voltage	V_z	I_F = 20 mA	5.8	–	–	V

Luminous Intensity (mlm at 30mA)

Rank	Min	Max
N	2250	2850
P	2850	3600
Q	3600	4500

*Luminous Intensity: ±15%

Forward Voltage (V at 30mA)

Group	B				
Rank	1	2	3	4	5
Min	3.00	3.20	3.40	3.60	3.80
Max	3.20	3.40	3.60	3.80	4.00

* Forward Voltage: ±0.1V

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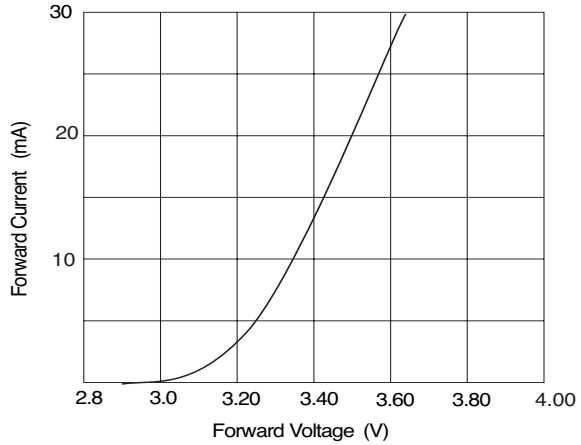
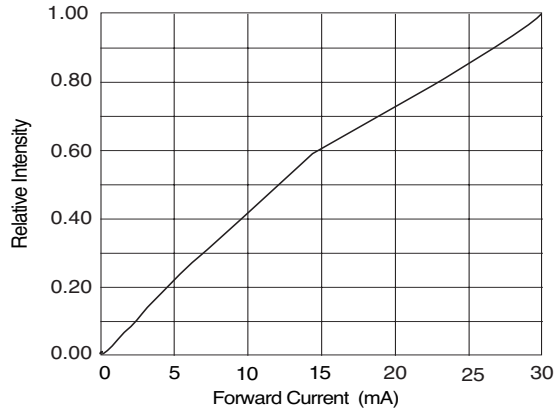
10/25/06

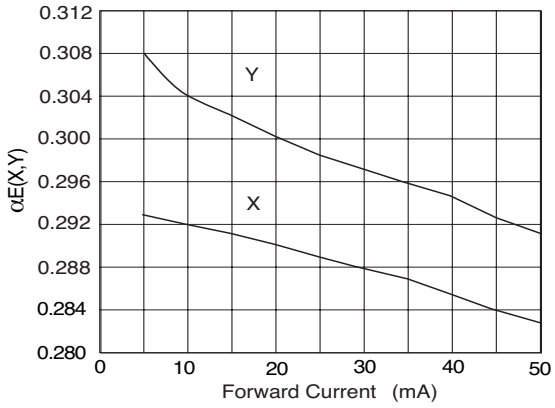
Forward Current vs. Forward Voltage



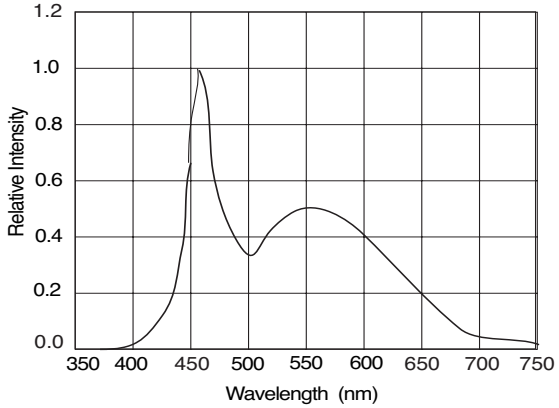
Relative Intensity vs. Forward Current



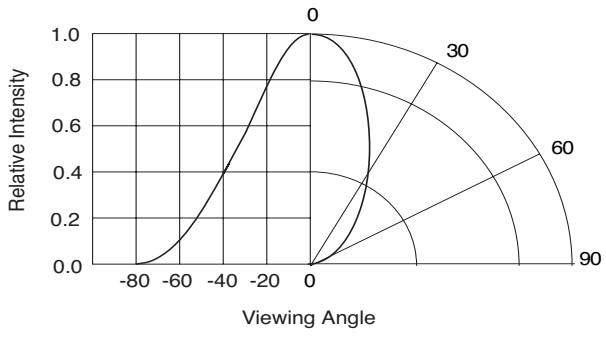
Chromaticity Coordinate vs. Forward Current



Relative Intensity vs. Wavelength



Radiation Characteristics



Forward Current vs. Ambient Temperature