Approved	Checked	Designed	DEVELOPMENT SPECIFICATION
T. Ikeda	M. Ino	T. Tabata	P/N : LNJ911W8BRA

TYPE	Blue Light Emitting Diode
APPLICATION	Indicators
MATERIAL	GaN
OUTLINE	Attached

ABSOLUTE MAXIMUM RATINGS	P	*1 I_{FP}	I_{FDC}	V_R	Topr	Tstg
	40	50	10	5	-25～+85	-30～+100
	mW	mA	mA	V	℃	℃

CONDITION : Ta = 25 ± 3℃

Test Specification

Item	Symbol	Condition	Typ	Limit Min	Limit Max	Unit
Forward Voltage	V_F	I_F = 5mA	3.2		3.7	V
Reverse Leakage Current	I_R	V_R = 5V			10	μA
Luminous Intensity *2	I_O	I_F = 5mA DC	8.5	4.5		mcd
Peak Emission Wavelength	λp	I_F = 5mA DC	470			nm
Spectral Line Half Width	Δλ	I_F = 5mA DC	30			nm

*1· The Condition of pulse current I_{FP} is 1ms pulse width, 10 % duty cycle.
*2· Tolerance of luminouse intensity ±20%.
· Please contact the Panasonic local office if you design at low current(below 1 mA DC) or pulse current operation and have any questions.

NOTE
★1. Soldering conditions.
Refer to Handling note.
★2. Care should be taken that soldering is done within 3-days after opening the dry package and reel.
★3. Compositions of the lead ····· Cu/Ni/Au plating
★4. This LED is sensitive to static electricity and care should be fully taken in handling it. Particularly, when an overvoltage is applied, which exceeds the absolute maximum rating of the LED, its energy damages the LED. Therefore, take utmost proactive measures against static electricity and surge as to building an assembly line and handling the LED halfway the process.
(1)Check the entire drive circuit including the power source. For example, a surge current, etc., generated at power-on/off must not exceed the absolute maximum rating of the LED. Also, insert an appropriate protective circuit into the LED drive circuit.
(2)Beware of destruction by static electricity in handling the LED. As proactive measures against static electricity, it is effective to earth your body(via 1MΩ), spread conductive mat on the floor, wear semiconductive work uniform and shoes, and use semiconductive containers. Also, be sure to earth the nose of a soldering iron. It is recommended to use an ionizer, etc., in the facility or environment where static electricity may be generated easily.

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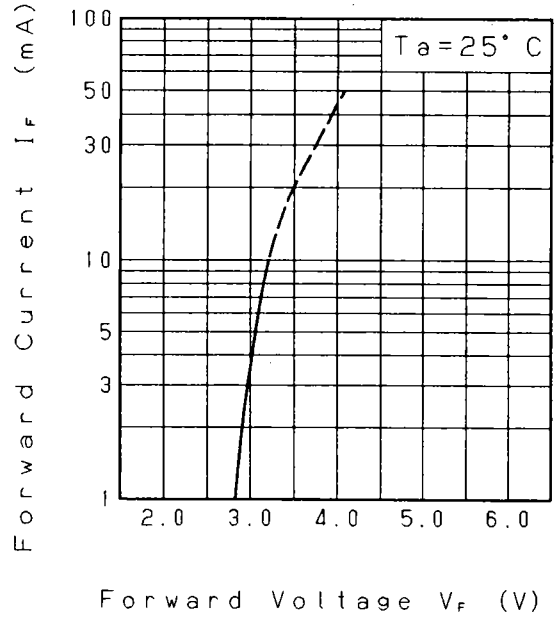
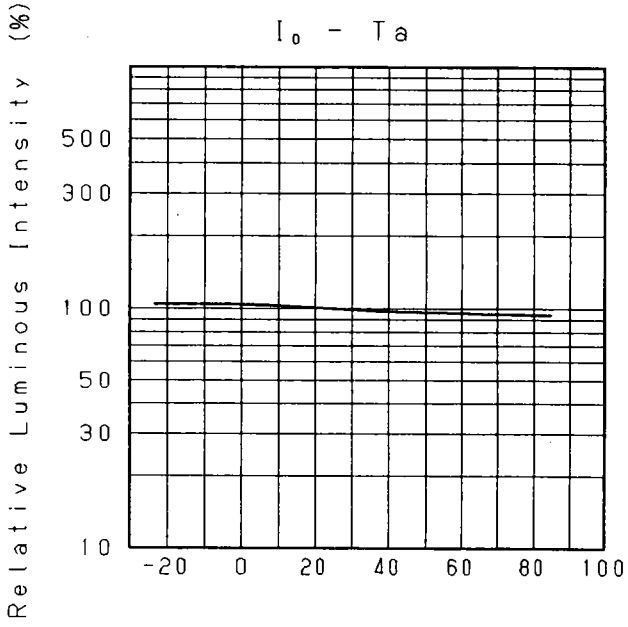
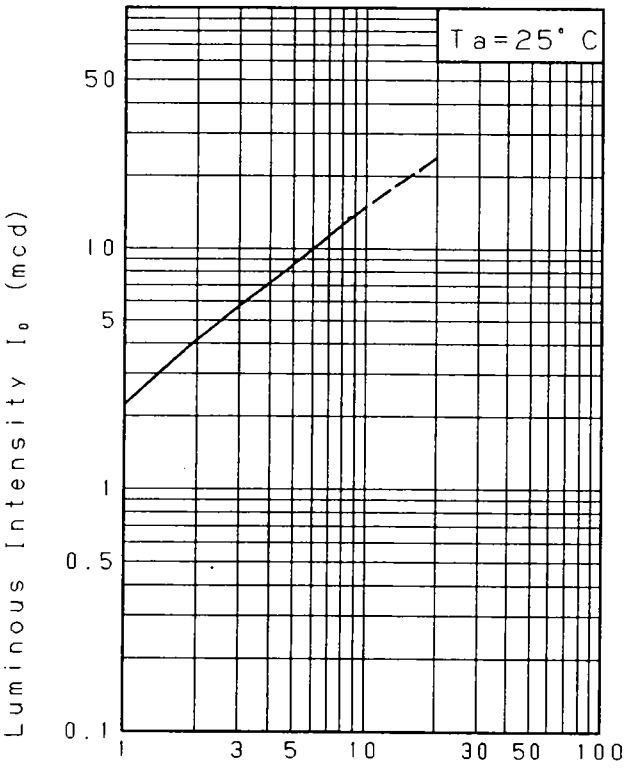
$I_F - V_F$



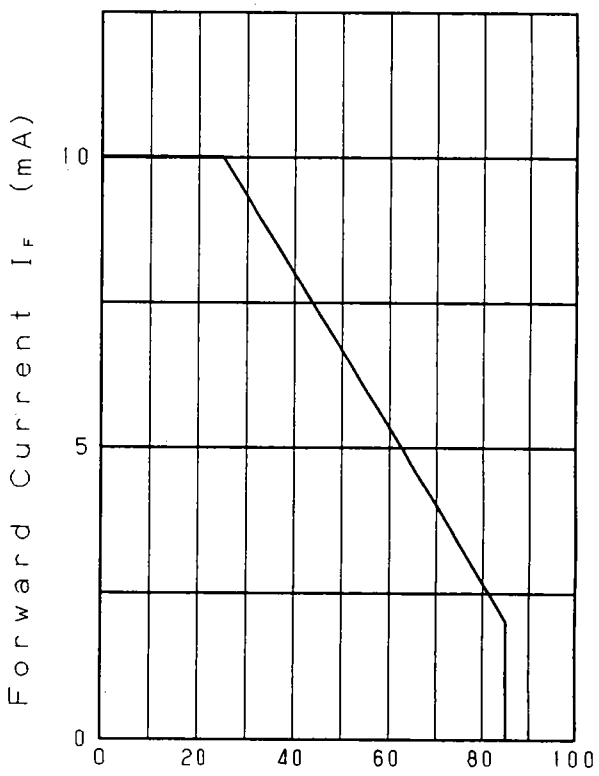
$I_O - Ta$



$I_O - I_F$



$I_F - Ta$



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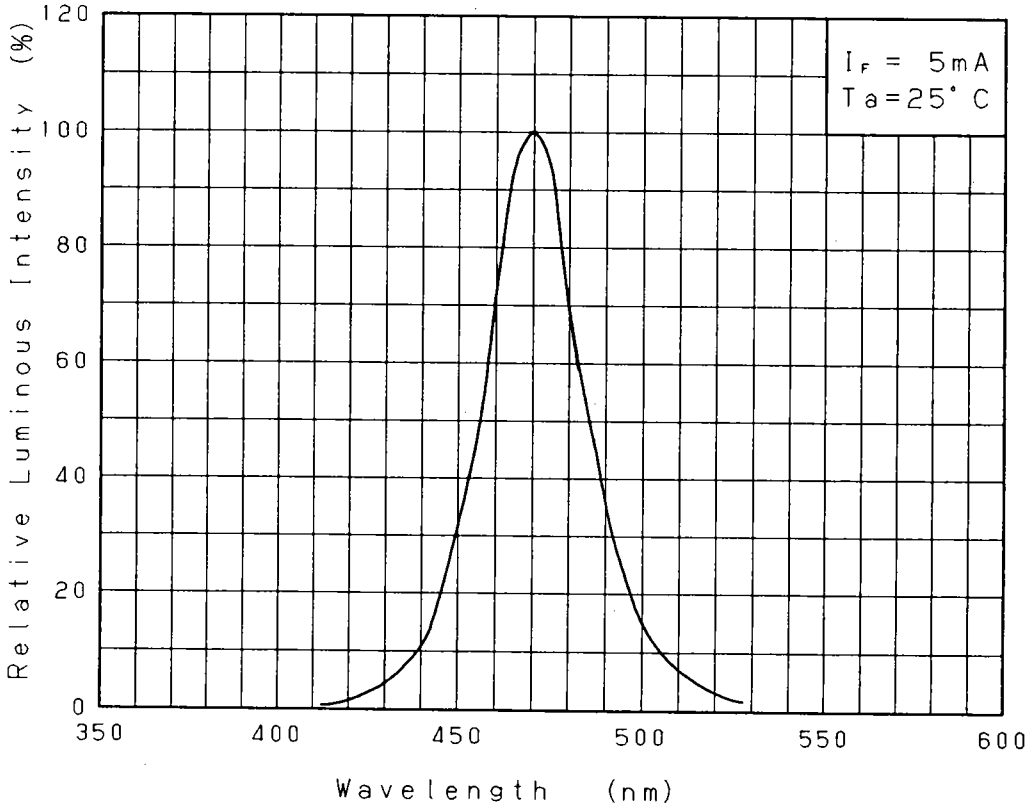
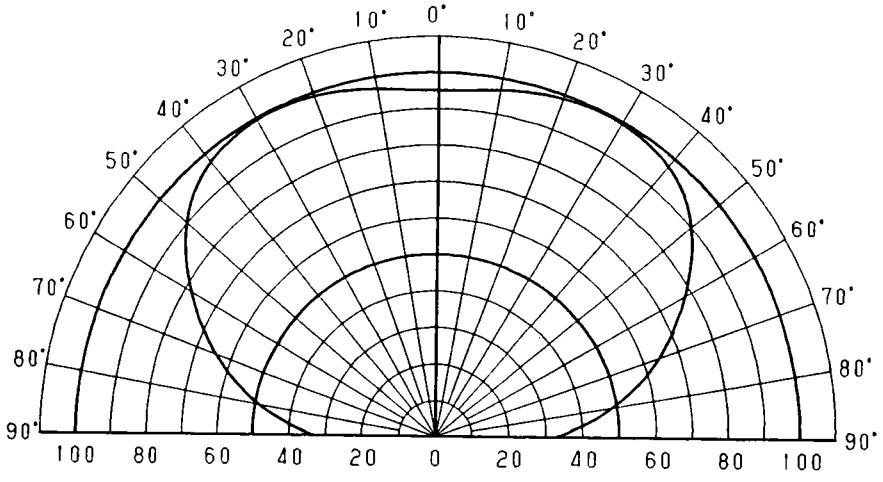
Relative Luminous Intensity Wavelength Characteristics



Directive Characteristics



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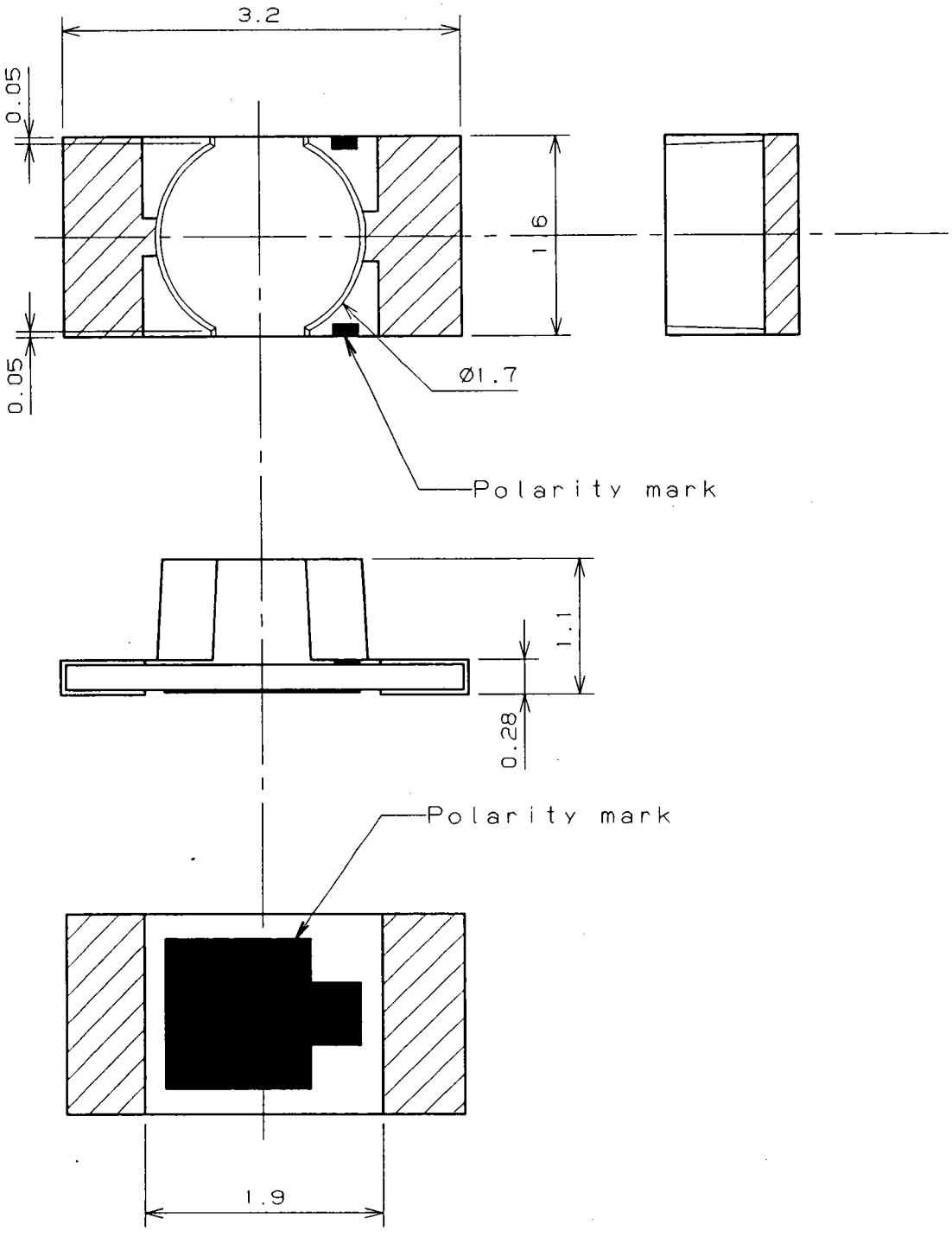
T. Ishida	H. Nai	T. Takata

DEVELOPMENT SPECIFICATION
(TEMPORARY OUTLINE)
P/N: LNJ911W8BRA



(NOTE)
1. Unit: mm
2. Tolerance unless specified is ±0.15.
3. ▨ indicate Au terminal.

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