

Approved	Checked	Designed	DEVELOPMENT SPECIFICATION TEMPORARY P/N:LNJ920W9BRAS				
	<i>T. Kojima</i>	<i>M. Nagase</i>					

T Y P E	Blue Light Emitting Diode					
APPLICATION	Indicators					
MATERIAL	GaN					
OUTLINE	Attached					
ABSOLUTE MAXIMUM RATINGS	P	I_{RDC}	*1 I_{FP}	I_{RDC}	Topr	Tstg
	65	20	65	100	-30~+85	-40~+100
	mW	mA	mA	mA	°C	°C
CONDITION	$T_a = 25 \pm 3 \text{ } ^\circ\text{C}$					

Test Specification

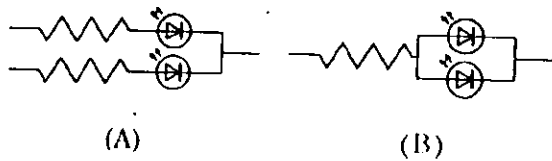
Item	Symbol	Condition	Typ	Limit		Unit
				Min	Max	
Forward Voltage	V_F	$I_F = 5 \text{ mA}$	3.0		3.7	V
Reverse Voltage	V_R	$I_R = 10 \text{ mA}$	0.9		2.0	V
Luminous Intensity *2	I_O	$I_F = 5 \text{ mA} \cdot \text{DC}$	30	15		md
Peak Emission Wavelength	λ_p	$I_F = 5 \text{ mA} \cdot \text{DC}$	470			
Spectral Line Half Width	$\Delta \lambda$	$I_F = 5 \text{ mA} \cdot \text{DC}$	30			

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

NOTE

1. Soldering conditions. Refer to Handling note.
2. I_{RDC} is characteristic of protective diode.

Circuit model



- (A) Recommended circuit.
- (B) The difference of brightness between the LED could be found due to the V_F characteristics of each LED.

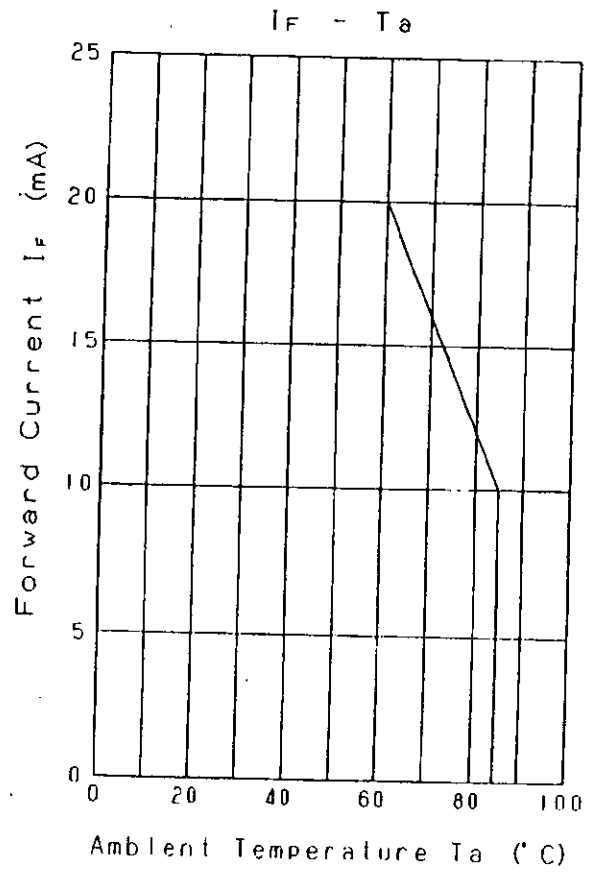
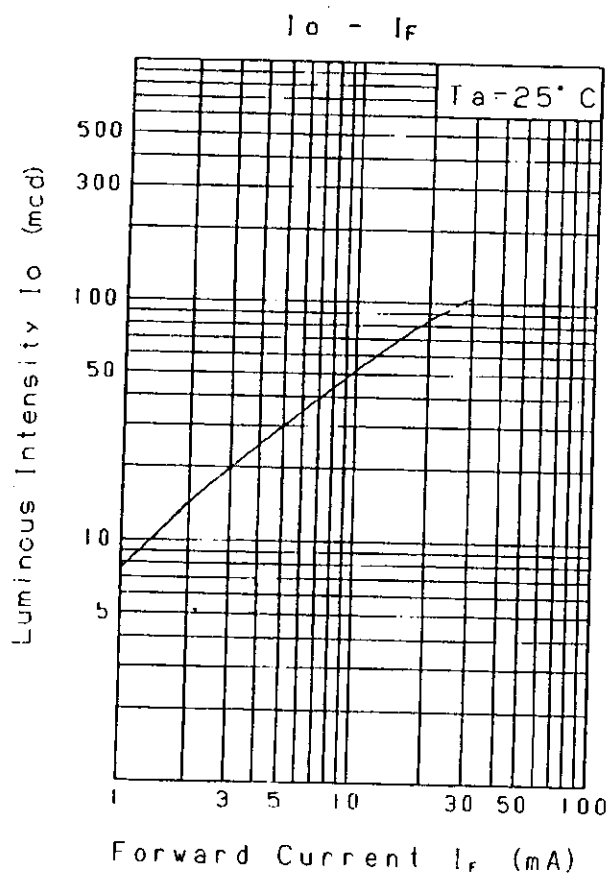
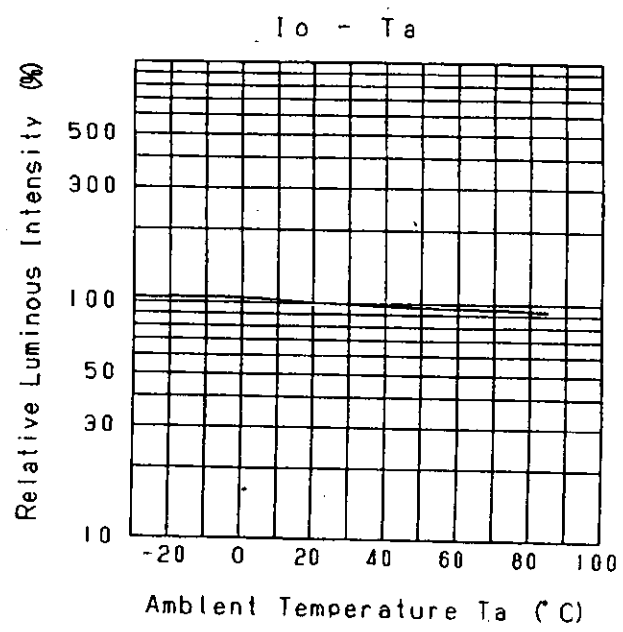
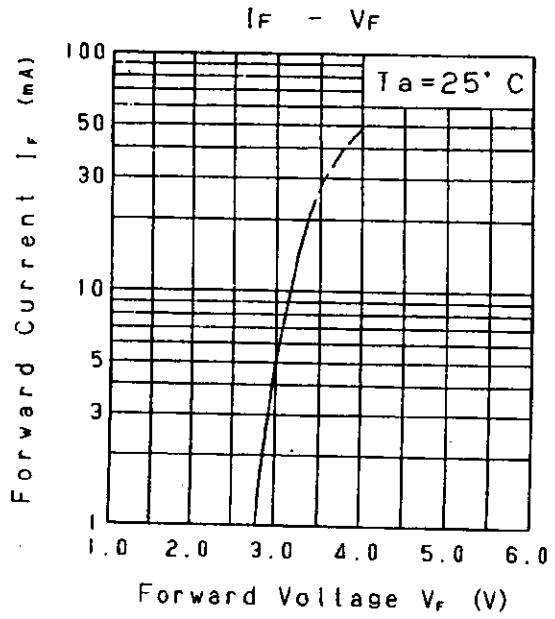
May. 17. 2001			

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	<i>[Signature]</i>	<i>[Signature]</i>

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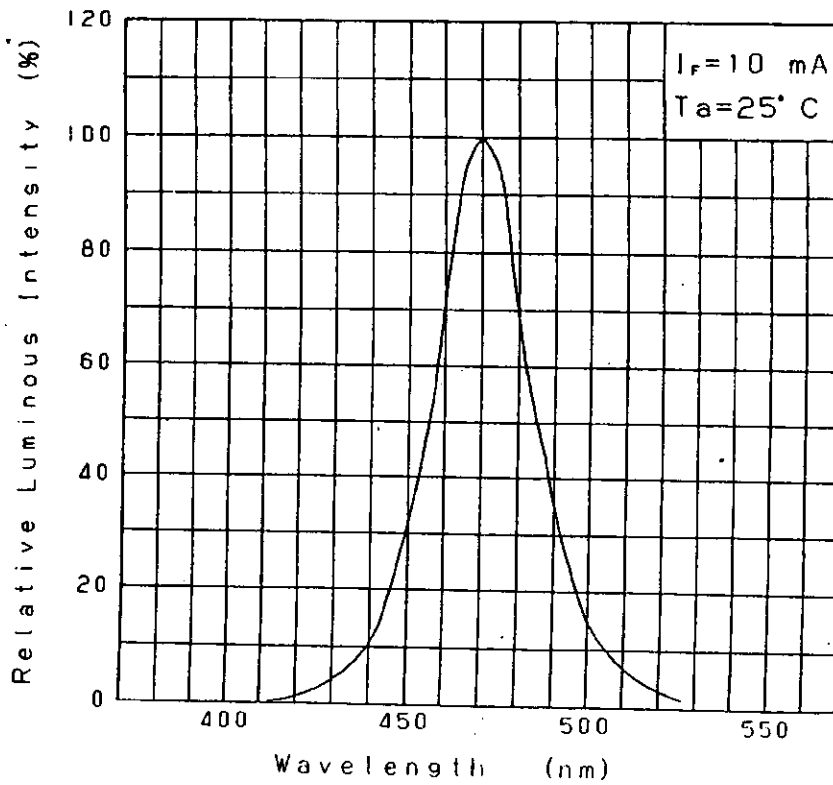
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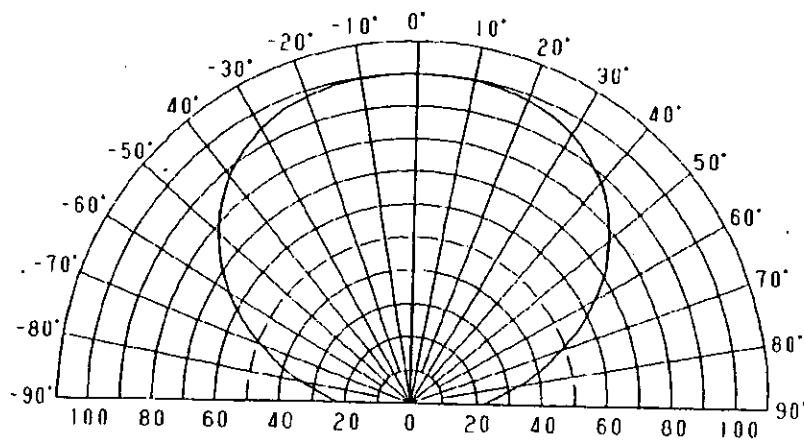
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[Handwritten signatures]

Relative Luminous Intensity
Wavelength Characteristics



Directive Characteristics



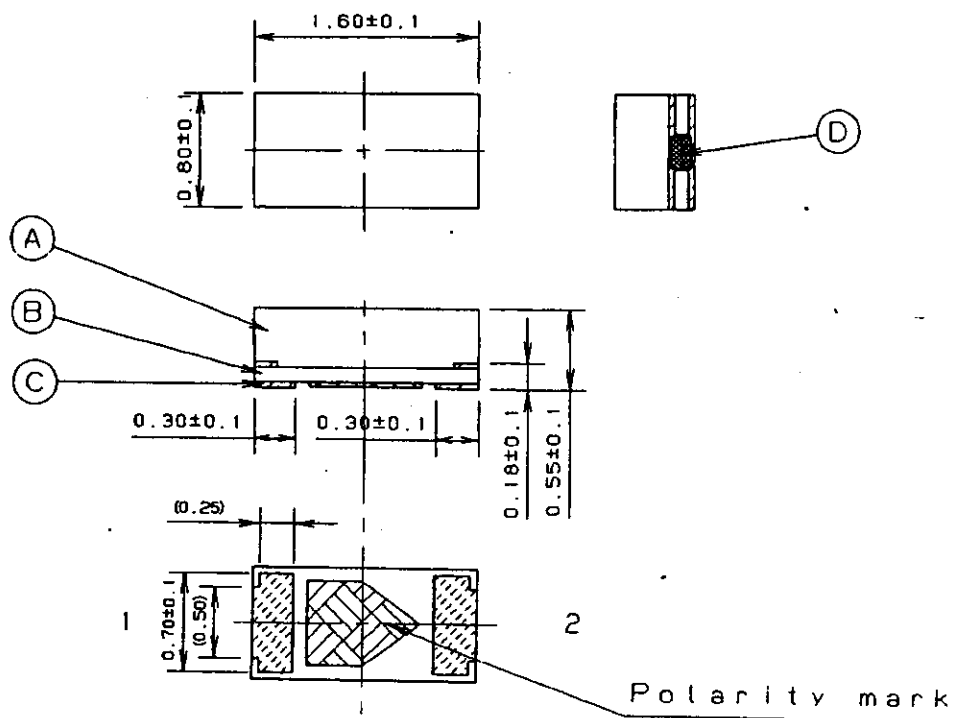
Relative Luminous Intensity (%)

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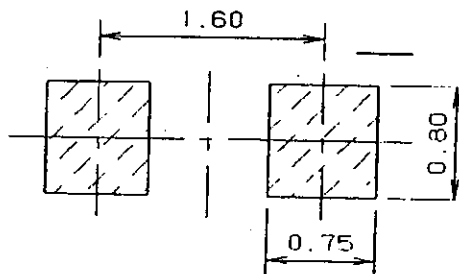
Approved	Checked	Designed
		<i>M. Moriguchi</i>

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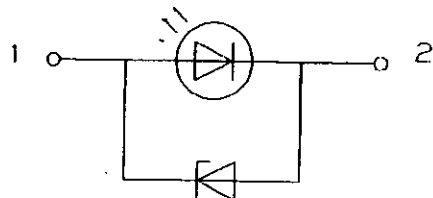
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Recommended Land Layout



Polarity



1: Anode
2: Cathode

NOTE)

1. Measurement of the package doesn't include electrode projection.
2. Unit: mm
3. Materials: (A) Epoxy resin
(B) Substructure
(C) Terminal (Cu/Ni/Au plating)
(D) Potting resin

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