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Panasonic Electronic Components
LNJ312G83RA

For any questions, you can email us directly:
sales@integrated-circuit.com

Approved	Checked	Designed	DEVELOPMENT SPECIFICATION P/N:LNJ312G83RA
T.Ikeda		K.Ishibashi	

TYPE	Green Light Emitting Diode
APPLICATION	Indicators
MATERIAL	InGaAlP
OUTLINE	Attached

ABSOLUTE MAXIMUM RATINGS	P	*1 I_{FP}	I_{FDC}	V_R	Topr	Tstg
	55	60	20	4	-30～+85	-40～+100
	mW	mA	mA	V	℃	℃

CONDITION Ta＝25±3℃

Test Specification

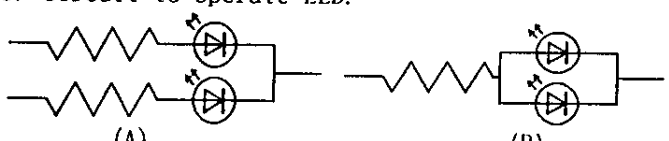
Item	Symbol	Condition	Typ.	Limit Min	Limit Max	Unit
Forward Voltage	V_F	I_F=10 mA	2.03		2.5	V
Reverse Leakage Current	I_R	V_R= 4 V			100	μA
Luminous Intensity *2	I_O	I_F=10 mA DC	12	6.4		mcd
Peak Emission Wavelength	λp	I_F=10 mA DC	575			nm
Spectral Line Half Width	Δλ	I_F=10 mA DC	15			nm

*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 Measurement Tolerance is ±20%.
Rank classification of luminous intensity. (Measurement condition ; I_F=10mA)

Rank	Luminous intensity(mcd)
1	6.4 ～ 9.6
2	9.6 ～ 14.4
3	14.4 ～ 21.6
4	21.6 ～ 32.4

NOTE
★1. Terminal:Plated with gold on copper base.
★2. Beware of destruction by static electricity in handling the LED.
★3. Soldering conditions.
Refer to Handling note.
★4. Care should be taken that soldering is done within 3-days after opening the dry package and reel.
★5. Circuit to operate LED.



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

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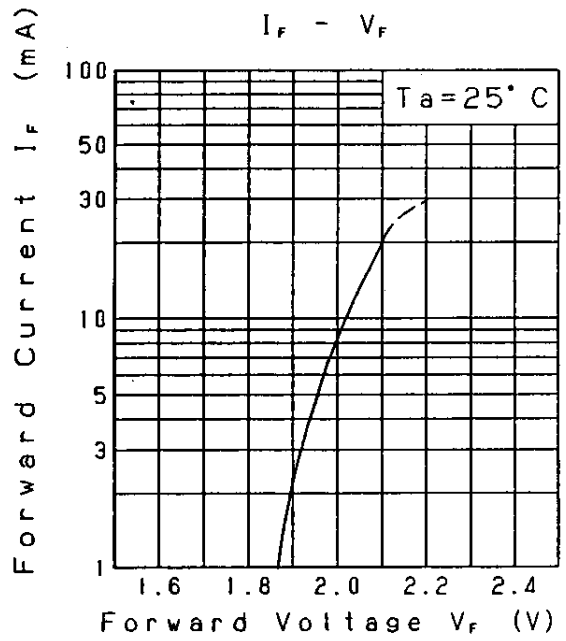
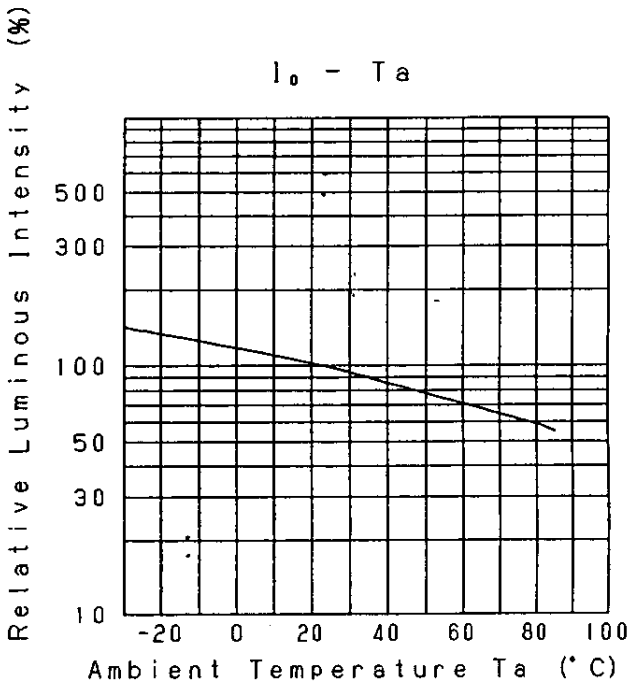
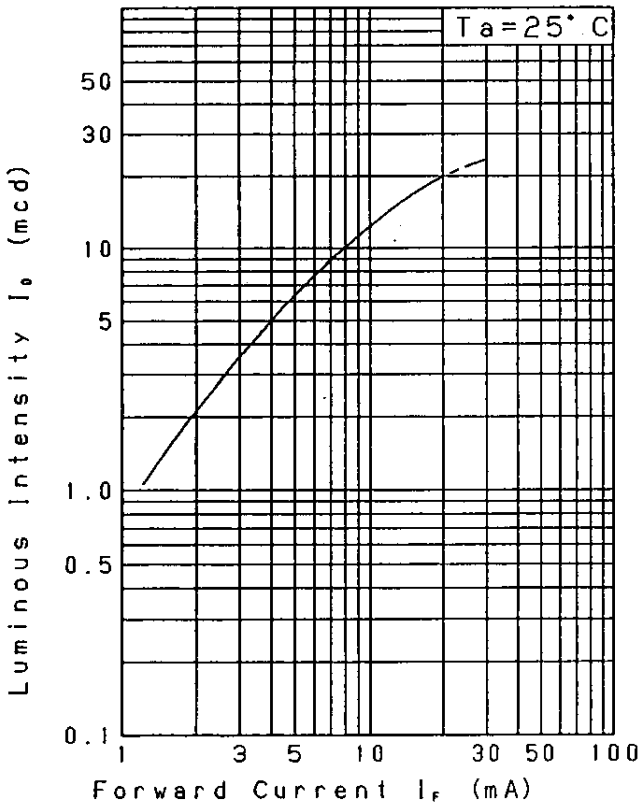
I_F - V_F



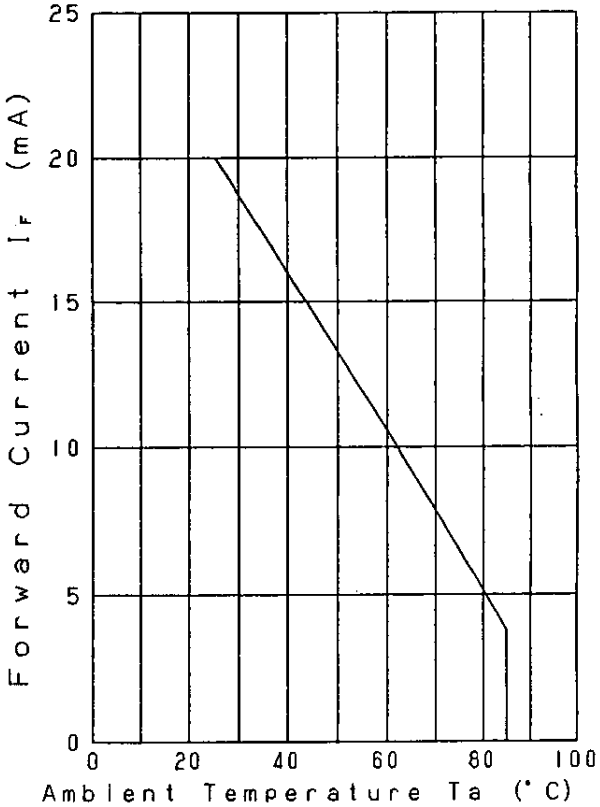
I_O - Ta



I_O - I_F



I_F - Ta



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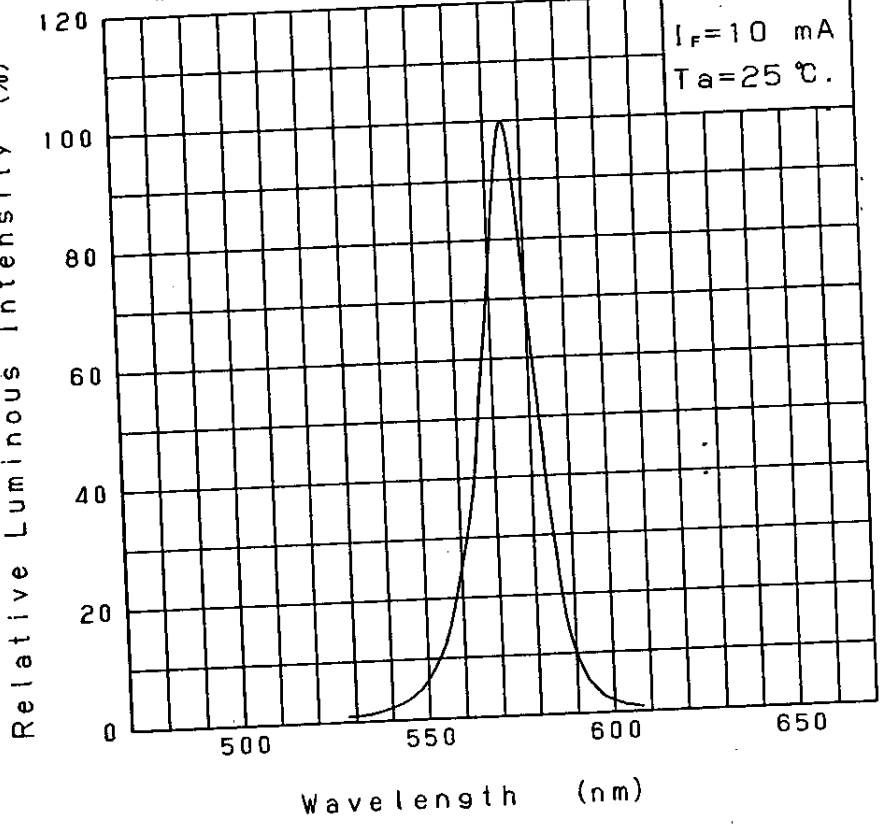
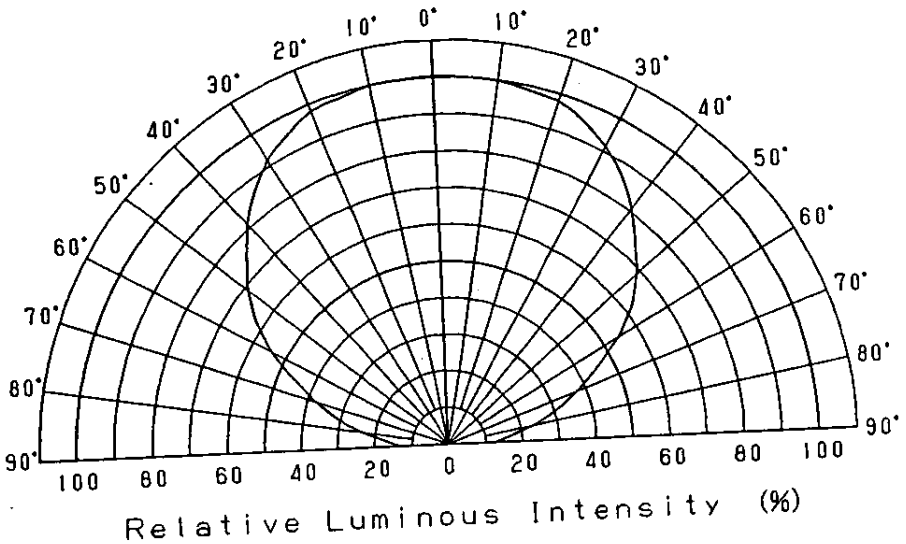
Relative Luminous Intensity
Wavelength Characteristics



Directive Characteristics



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Panasonic KAGOSHIMA MATSUSHITA ELECTRONICS CO., LTD KB++022-018E

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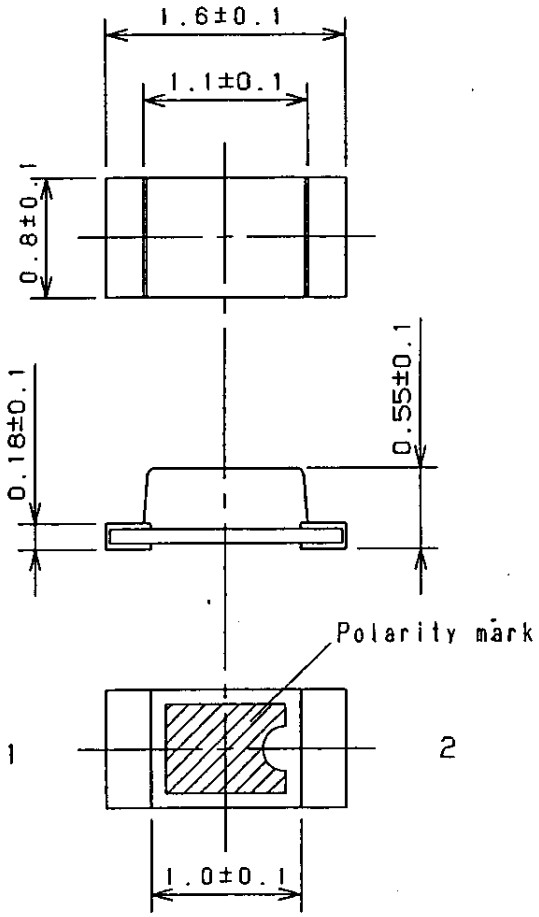
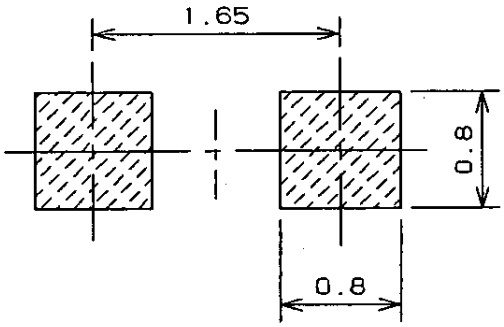
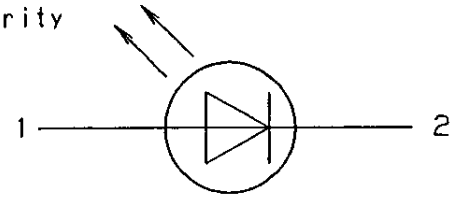


Recommended Land Layout



Polarity



1:Anode
2:Cathode

(NOTE)

1. Measurement of the package doesn't include electrode projection.
2. Unit:mm

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