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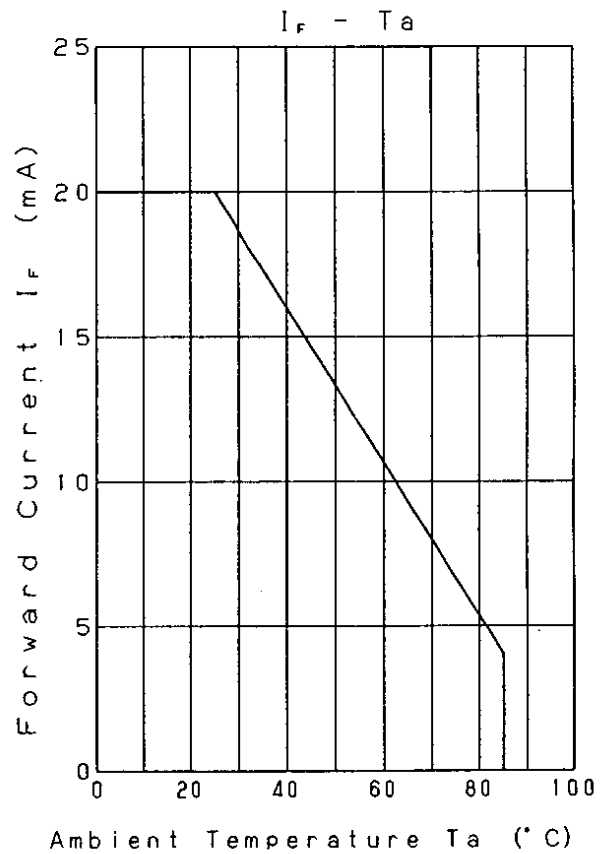
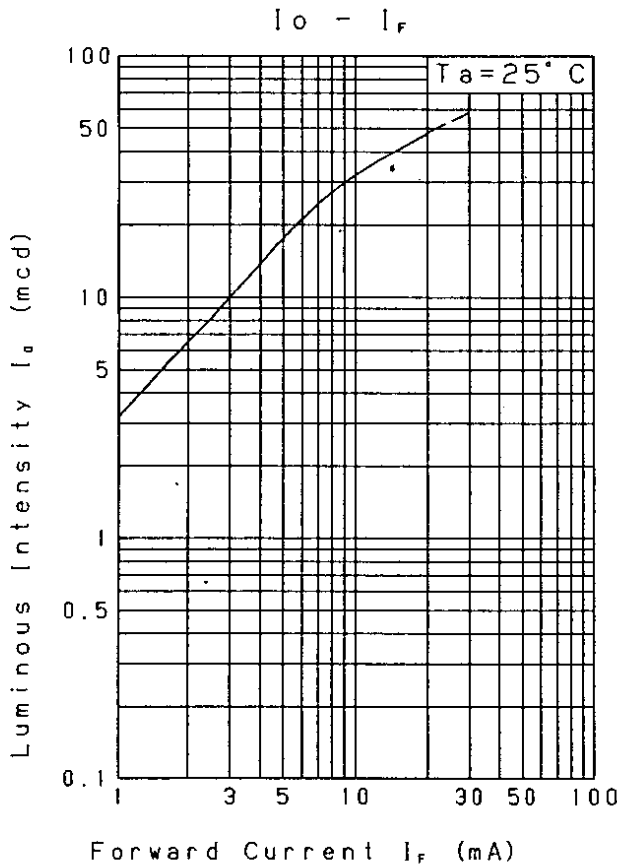
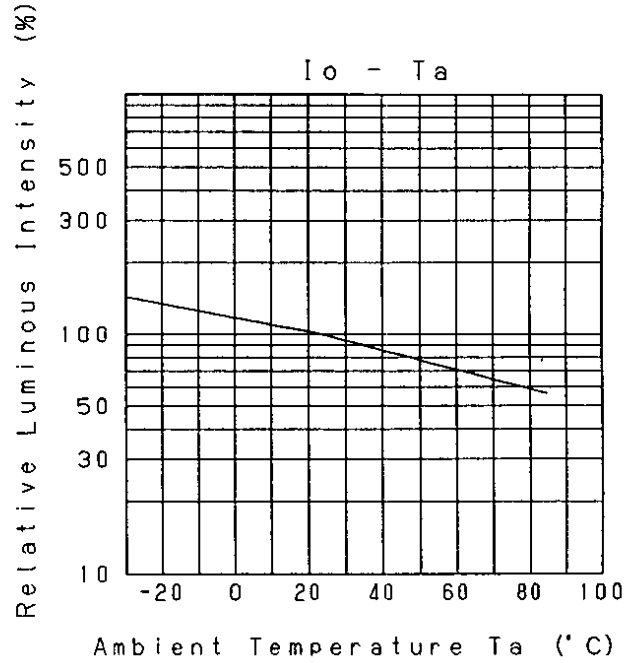
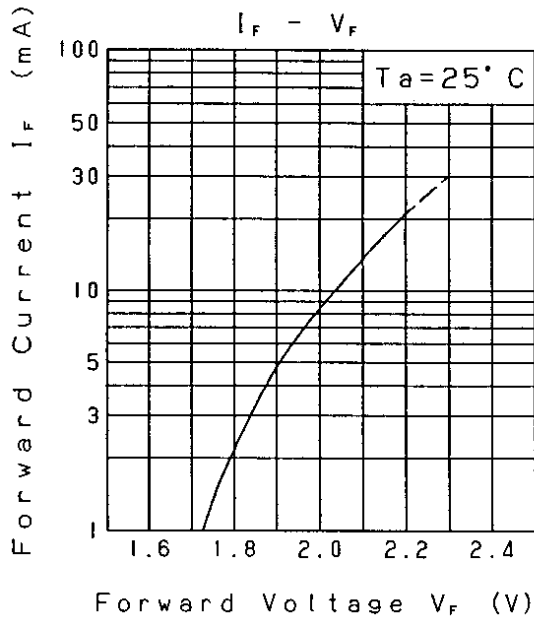
[LNJ811R83RA](#)

For any questions, you can email us directly:

[sales@integrated-circuit.com](mailto:sales@integrated-circuit.com)

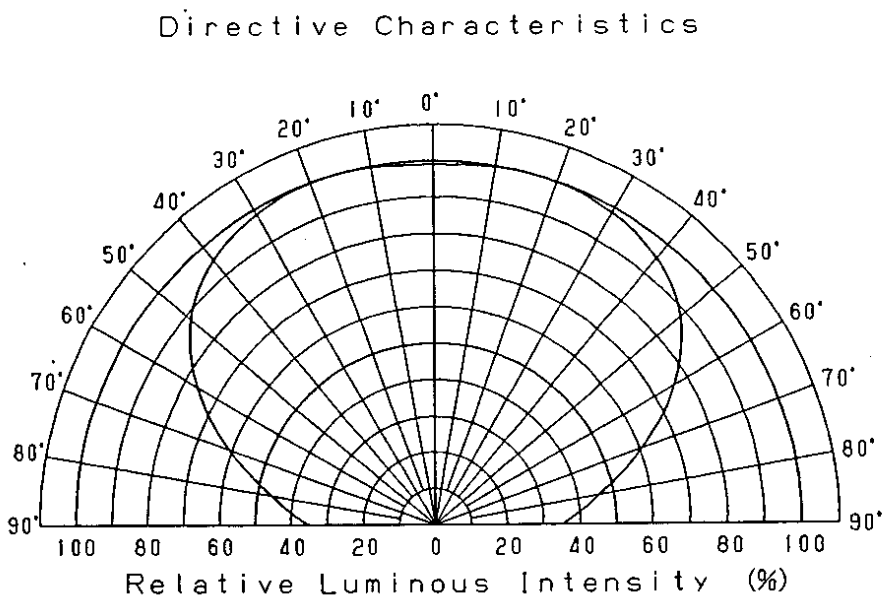
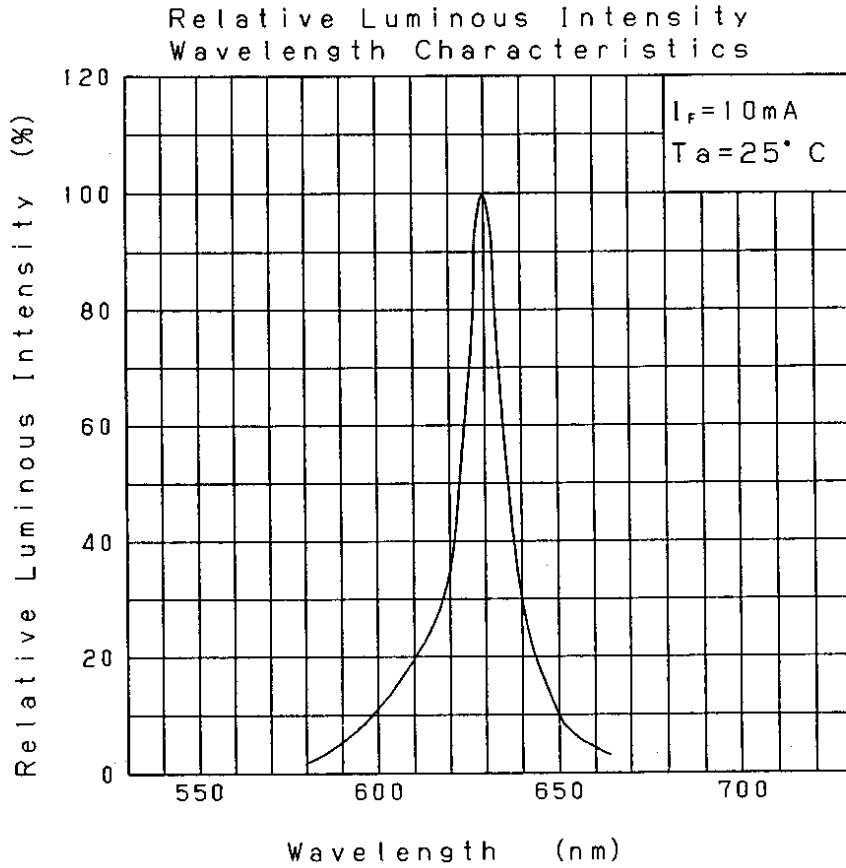
Approved	Checked	Designed	DEVELOPMENT SPECIFICATION					
		<i>T. Tabeta</i>	P/N: LNJ811R83RA				TEMPORARY	
TYPE			Orange Light Emitting Diode					
APPLICATION			Indicators					
MATERIAL			InGaAlP					
OUTLINE			Attached					
ABSOLUTE MAXIMUM RATINGS			P	*1 I <sub>FP</sub>	I <sub>FDC</sub>	V <sub>R</sub>	Topr	Tstg
			55	60	20	4	-30~+85	-40~+100
			mW	mA	mA	V	°C	°C
CONDITION			T <sub>a</sub> = 25 ± 3°C					
Test Specification								
Item	Symbol	Condition	Typ	Limit		Unit		
				Min	Max			
Forward Voltage	V <sub>F</sub>	I <sub>F</sub> = 10 mA	2.03		2.5	V		
Reverse Leakage Current	I <sub>R</sub>	V <sub>R</sub> = 4 V			100	μA		
Luminous Intensity *2	I <sub>o</sub>	I <sub>F</sub> = 10 mA DC	32	17		mcd		
Peak Emission Wavelength	λ <sub>p</sub>	I <sub>F</sub> = 10 mA DC	630			nm		
Spectral Line Half Width	Δλ	I <sub>F</sub> = 10 mA DC	15			nm		
<p>*1. The Condition of I<sub>FP</sub> is duty 10 % , Pulse width 1 ms</p> <p>*2. Tolerance of luminous intensity : ±20%.</p> <p>NOTE</p> <p>★1. Please contact the Panasonic local office if you design at low current (below 1mA DC) or pulse current operation and have any questions.</p> <p>★2. Soldering conditions...Refer to Handling note.</p> <p>★3. Compositions of the lead ... Cu/Ni/Au plating</p> <p>★4. Beware of destruction by static electricity in handling the LED.</p> <p>★5. Circuit to operate LED.</p>								
						(A) Recommended circuit.		
						(B) The difference of brightness between the LED could be found due to the V <sub>F</sub> characteristics of each LED.		
Oct. 18. 2001								

Approved	Checked	Designed	DEVELOPMENT SPECIFICATION	TEMPORARY
		T. Takata		



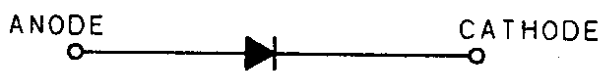
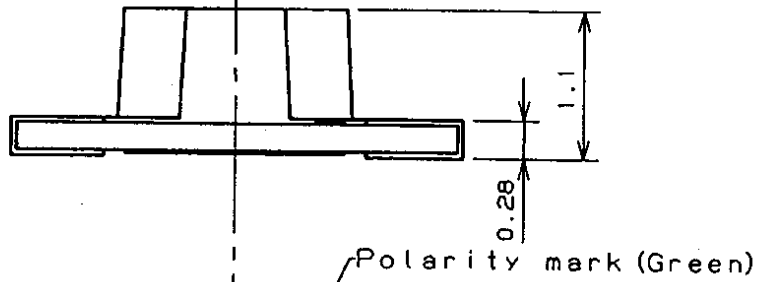
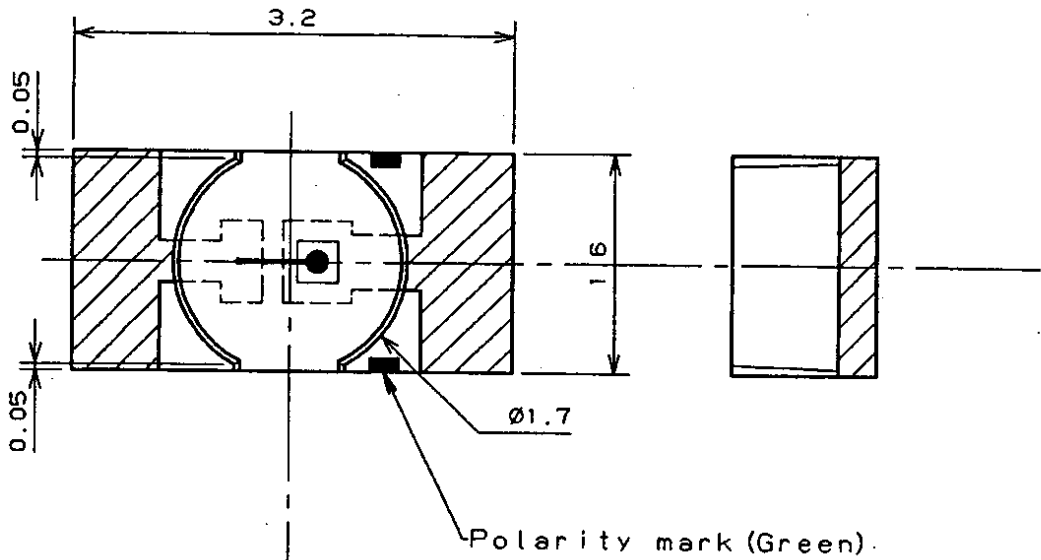
Oct.18.2001			
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Approved	Checked	Designed	DEVELOPMENT SPECIFICATION	TEMPORARY
		<i>T. Tabata</i>		



Oct. 18. 2001			
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Approved	Checked	Designed	DEVELOPMENT SPECIFICATION (OUTLINE)	
<i>A. Yamano</i>	<i>T. Shobu</i>	<i>T. Tabata</i>		



(NOTE)  
 1. Unit: mm  
 2. Tolerance unless specified is  $\pm 0.15$ .  
 3. indicate Au terminal.

Jan. 14, 1999