



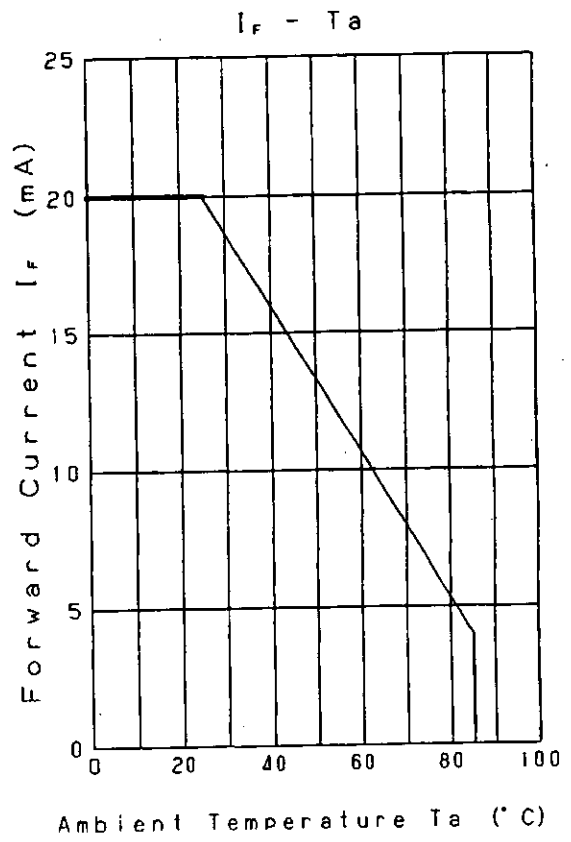
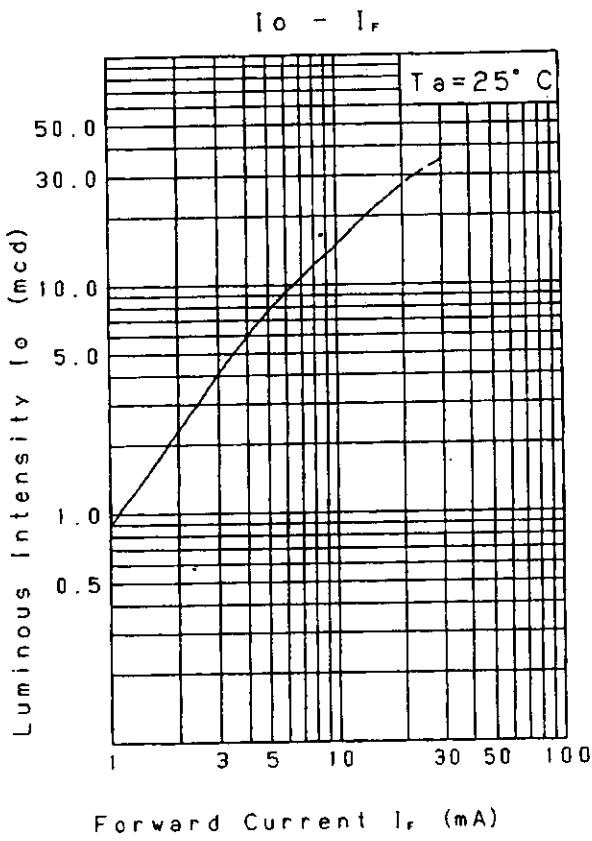
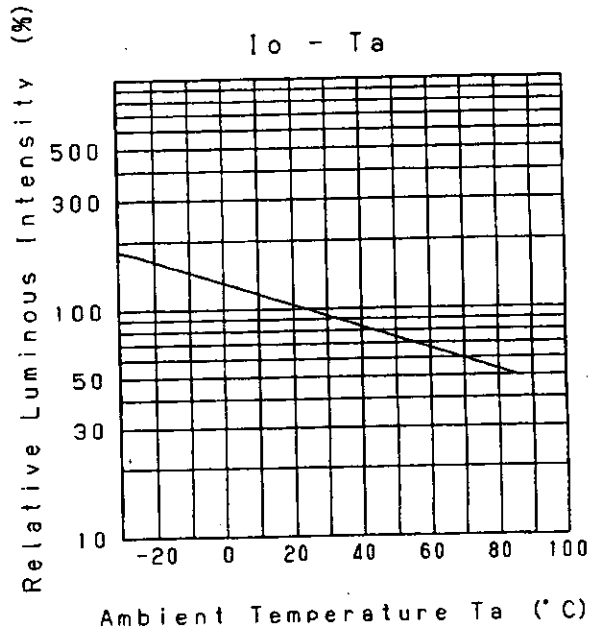
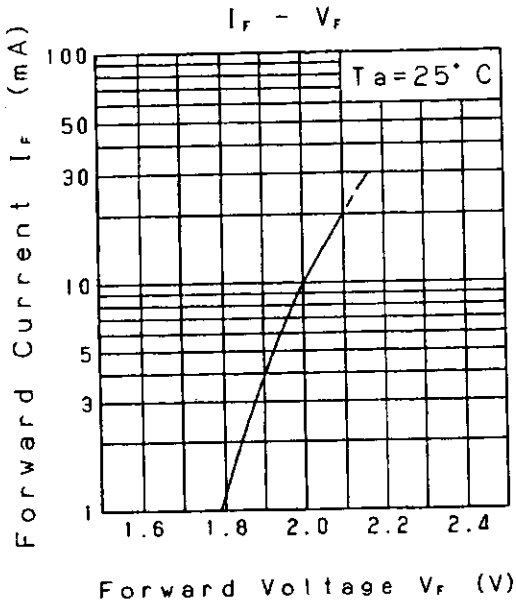
Approved	Checked	Designed	DEVELOPMENT SPECIFICATION						
<i>T. Akada</i>	<i>M. W. J.</i>	<i>T. Takata</i>	P/N: LNJ411K84RU				TEMPORARY		
T	Y	P	E	Amber Light Emitting Diode					
APPLICATION			Indications						
MATERIAL			InGaAlP						
OUTLINE			Attached						
ABSOLUTE		P	*I _{FP}	I _{FDC}	V _R	Topr	Tsig		
MAXIMUM		55	60	20	4	-30~+85	-40~+100		
RATINGS		mW	mA	mA	V	°C	°C		
CONDITION			Ta=25±3°C						
Test Specification									
I	l	e	m	Symbol	Condition	Typ	Limit		Unit
							Min	Max	
Forward Voltage		V _F	I _F =10mA			2.0		2.5	V
Reverse Leakage Current		I _R	V _R =4V					100	μA
Luminous Intensity		I _L	I _F =10mA DC			17	9.0		mcd
Peak Emission Wavelength		λ _p	I _F =10mA DC			595			nm
Spectral Line Half Width		Δλ	I _F =10mA DC			15			nm
<p>*1. The Condition of I_{FP} is duty 10%. Pulse width 1ms</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>									
						<p>(A) Recommended circuit.</p> <p>(B) The difference of brightness between the LED could be found due to the V_F characteristics of each LED.</p>			
Jul. 25. 2001									

Approved	Checked	Designed
<i>T. Ito</i>	<i>M. H.</i>	<i>T. Tabata</i>

DEVELOPMENT SPECIFICATION

P/N: LNJ411K84RU

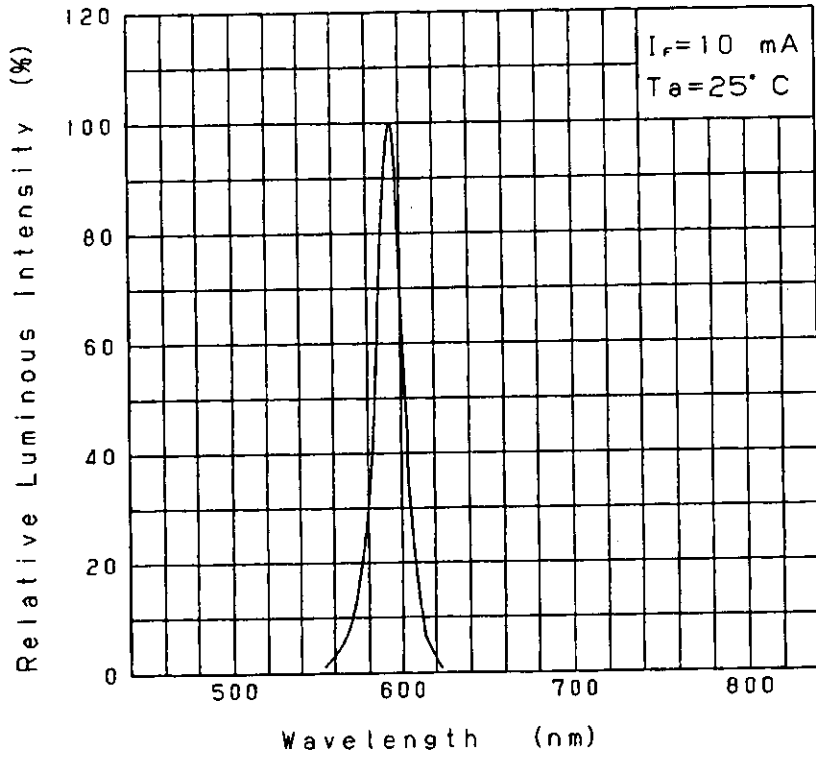
TEMPORARY



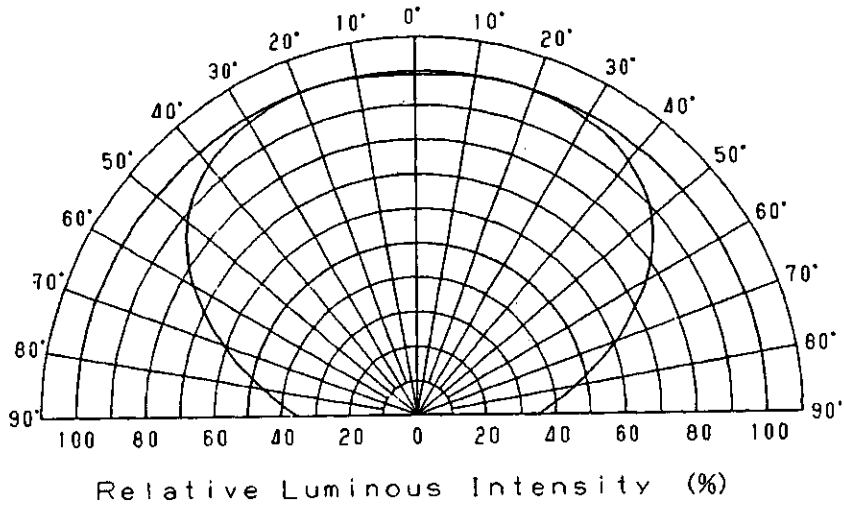
Jul. 25. 2001

Approved	Checked	Designed	DEVELOPMENT SPECIFICATION	TEMPORARY
<i>T. Shikata</i>	<i>M. Ichi</i>	<i>T. Takata</i>		

Relative Luminous Intensity
Wavelength Characteristics

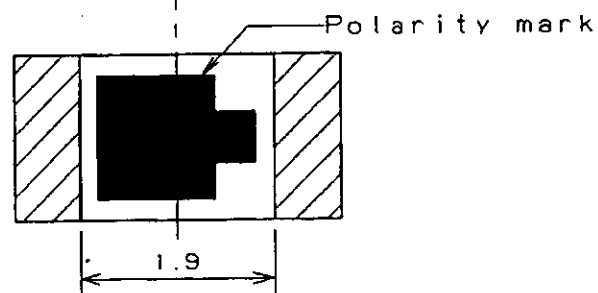
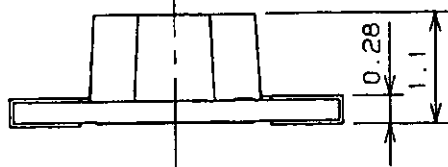
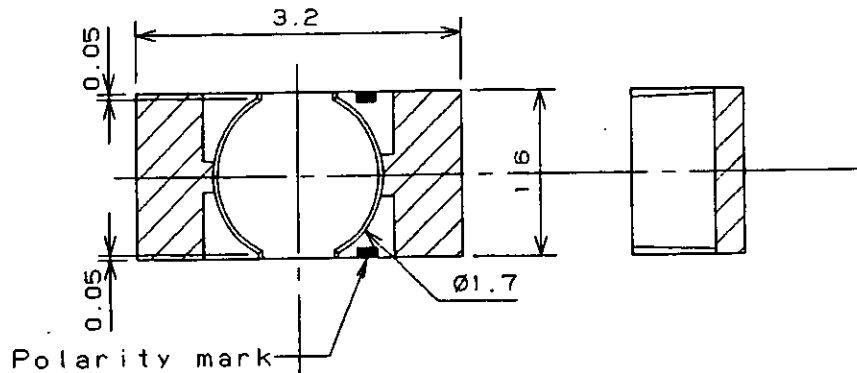


Directive Characteristics

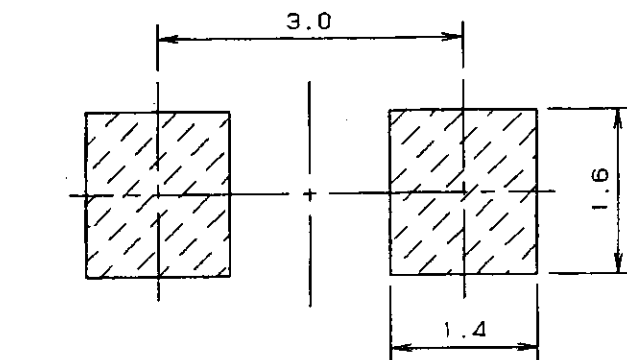


Apr. 20. 2001			
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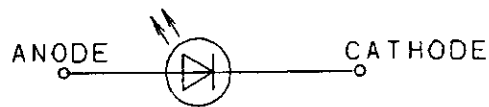
Approved	Checked	Designed	DEVELOPMENT SPECIFICATION (OUTLINE) P/N: LNJ411K84RU		
<i>T. Shuda</i>	<i>M. Ichi</i>	<i>T. Takata</i>			



Recommended Land Layout



Polarity



(NOTE)

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

Jul. 25. 2001			
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