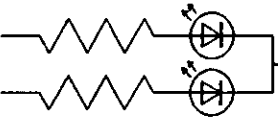
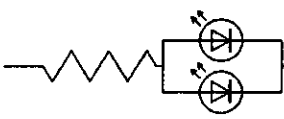
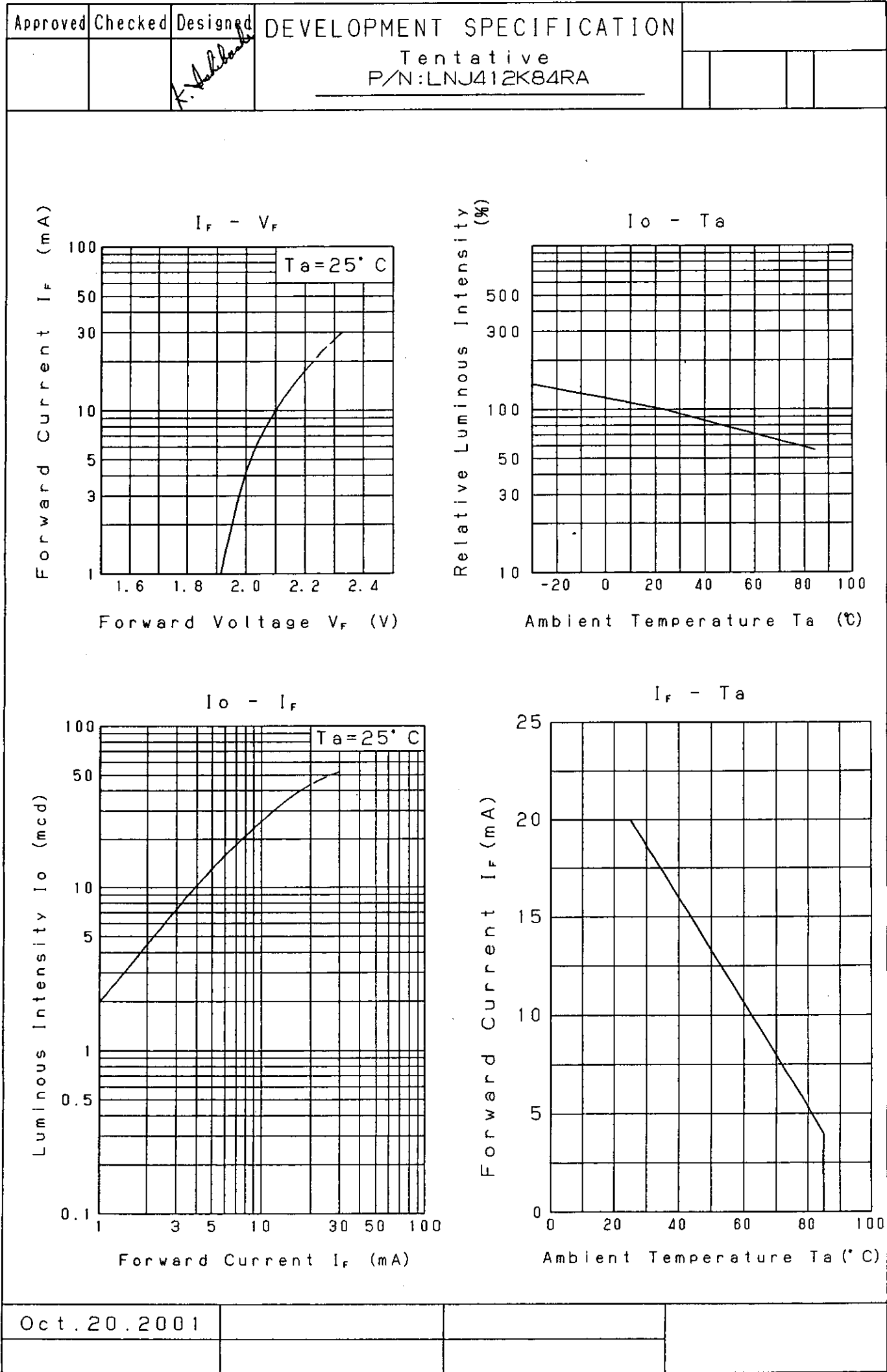
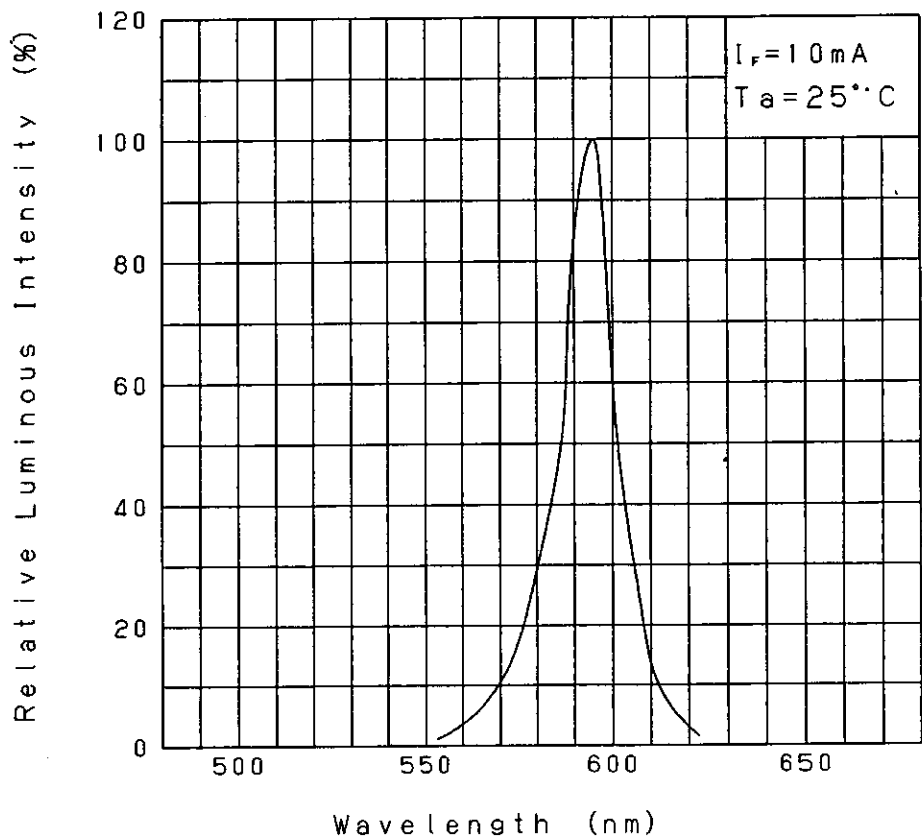


Approved	Checked	Designed	DEVELOPMENT SPECIFICATION							
		<i>K. Ito</i>	Tentative P/N:LNJ412K84RA							
TYPE			Amber Light Emitting Diode							
APPLICATION			Indicators							
MATERIAL			InGaAlP							
OUTLINE			Attached							
ABSOLUTE MAXIMUM RATINGS			P	*1 I _{FP}	I _{FDC}	V _R	Topr	Tstg		
			55	60	20	4	-30~+85	-40~+100		
			mW	mA	mA	V	℃	℃		
CONDITION			T _a = 25 ± 3 ℃							
Test Specification										
Item		Symbol	Condition			Typ.	Limit		Unit	
							Min	Max		
Forward Voltage		V _F	I _F = 10 mA			2.1		2.5	V	
Reverse Leakage Current		I _R	V _R = 4 V					100	μA	
Luminous Intensity *2		I _O	I _F = 10 mA DC			26	14		mcd	
Peak Emission Wavelength		λ _p	I _F = 10 mA DC			595			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%. 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 7-days after opening the dry package and reel. ★5. Circuit to operate LED.  (A)  (B) (A) Recommended circuit. (B) The difference of brightness between the LED could be found due to the V_F characteristics of each LED.										
Oct. 20. 2001										

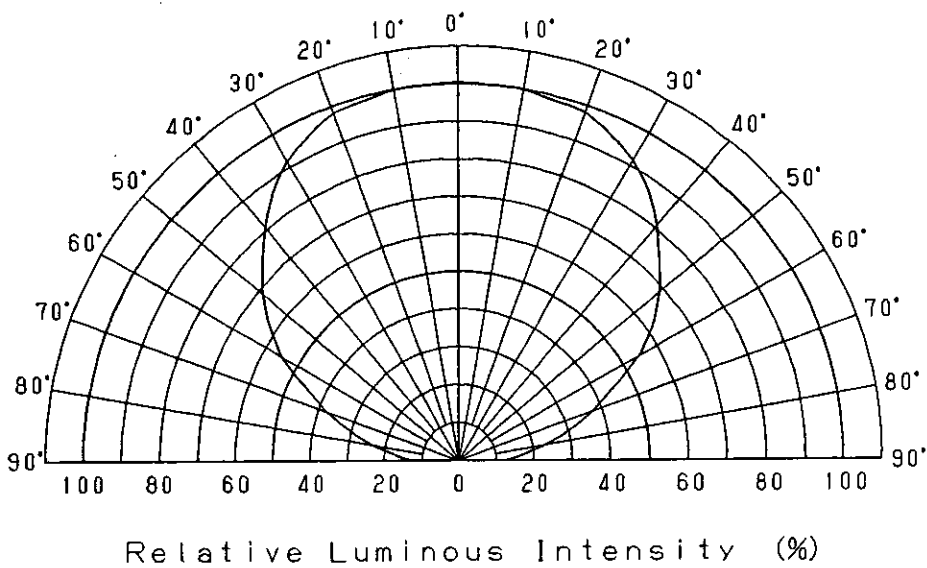


Approved	Checked	Designed	DEVELOPMENT SPECIFICATION			
		<i>K. Shibasaki</i>	Tentative			
			P/N:LNJ412K84RA			

Relative Luminous Intensity
Wavelength Characteristics



Directive Characteristics



Oct.20.2001			

Approved	Checked	Designed	DEVELOPMENT SPECIFICATION (O U T L I N E) Tentative P/N:LNJ412K84RA			
		<i>K. Nakamura</i>				
Top view dimensions: 1.6 ± 0.1 (total width), 1.1 ± 0.1 (inner width), 0.8 ± 0.1 (height). Side view dimensions: 0.18 ± 0.1 (base thickness), 0.55 ± 0.1 (total height). End view dimensions: 1.0 ± 0.1 (width). A polarity mark is indicated on the end view. Recommended Land Layout Dimensions: 1.65 (total width), 0.8 (pad width), 0.8 (pad height). Polarity 1: Anode 2: Cathode (NOTE) 1.Measurement of the package doesn't include electrode projection. 2.Unit:mm						
Oct.20.2001						