



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Approved	Checked	Designed	DEVELOPMENT SPECIFICATION				
		<i>T. Tabata</i>		P/N: LNJ012X8BRA			

T Y P E	White Light Emitting Diode					
A P P L I C A T I O N	Indicators					
M A T E R I A L	GaN					
O U T L I N E	Attached					
A B S O L U T E M A X I M U M R A T I N G S	P	I_{FDC}	*1 I_{FP}	V_R	Topr	Tstg
	40	10	50	5	-30~+85	-40~+100
	mW	mA	mA	V	°C	°C
C O N D I T I O N	Ta = 25 ± 3 °C					

Test Specification						
I t e m	S y m b o l	C o n d i t i o n	T y p.	L i m i t		U n i t
				Min.	Max.	
Forward Voltage	V_F	$I_F = 10 \text{ mA} \cdot \text{DC}$	3.2		3.7	V
Reverse Leakage Current	I_R	$V_R = 5 \text{ V}$			10	μA
Luminous Intensity *2	I_O	$I_F = 10 \text{ mA} \cdot \text{DC}$	76	47		mcd
Chromatic coordinates	x	$I_F = 10 \text{ mA} \cdot \text{DC}$	-	0.260	0.355	-
	y	$I_F = 10 \text{ mA} \cdot \text{DC}$	-	0.247	0.383	-

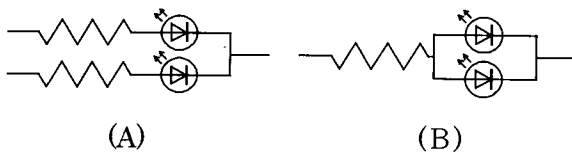
*1. The Condition of I_{FP} is duty 10 %, Pulse width 1 ms.
 * Please contact the Panasonic local office if you design at low current (below 1 mA DC) or pulse current operation and have any questions.

*2. Tolerance of luminous intensity is ±20 %.

NOTE

1. Soldering conditions. Refer to Handling note.
2. Package; light white diffusion type
3. Care should be taken that soldering is done within 7-days after opening the dry package and reel.

Circuit model

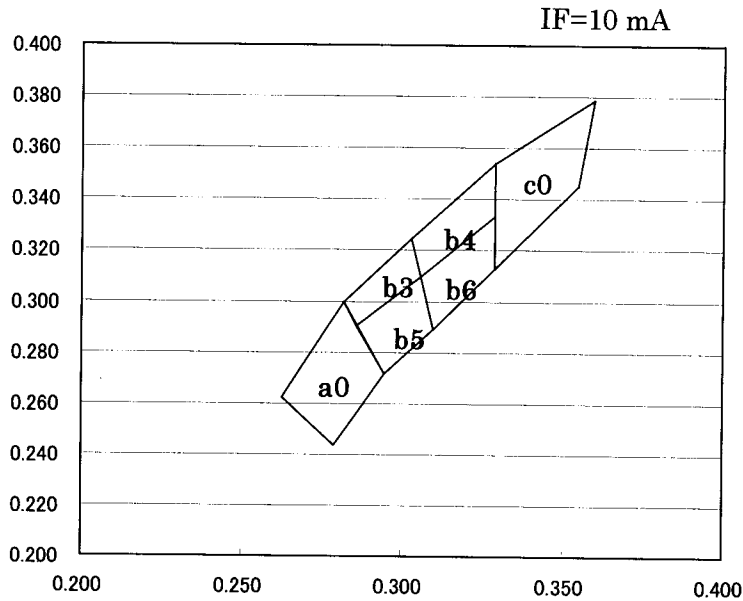


(A) Recommended circuit.
 (B) The difference of brightness between the LED could be found due to the V_f characteristics of each LED.

Oct. 2. 2002	Feb. 21. 2003		

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		<i>T. Tabata</i>		P/N : LN J 0 1 2 X 8 B R A		

Classification of Chromatic coordinates



Ranks	x	y
a0	0.275	0.247
	0.291	0.275
	0.278	0.304
	0.260	0.266
b3	0.282	0.294
	0.302	0.314
	0.299	0.329
	0.278	0.304
b4	0.302	0.314
	0.325	0.338
	0.325	0.359
	0.299	0.329

Ranks	x	y
b5	0.291	0.275
	0.306	0.293
	0.302	0.314
	0.282	0.294
b6	0.306	0.293
	0.325	0.317
	0.325	0.338
	0.302	0.314
c0	0.325	0.317
	0.350	0.350
	0.355	0.383
	0.325	0.359

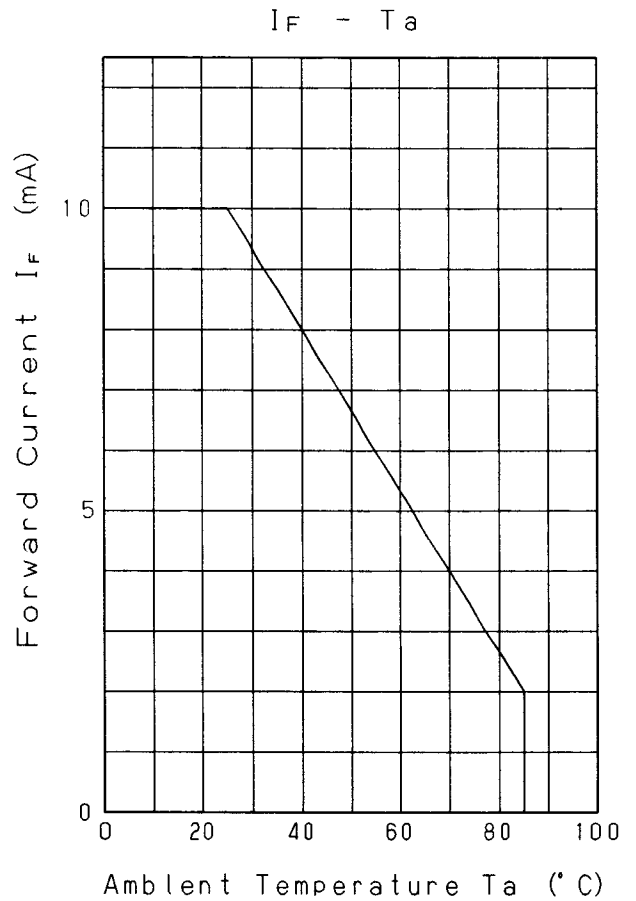
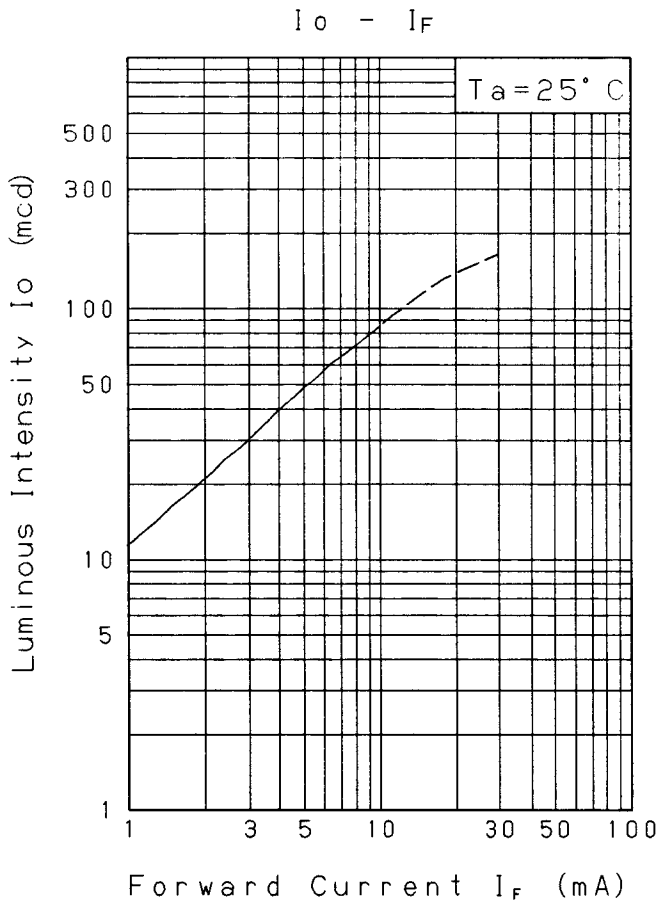
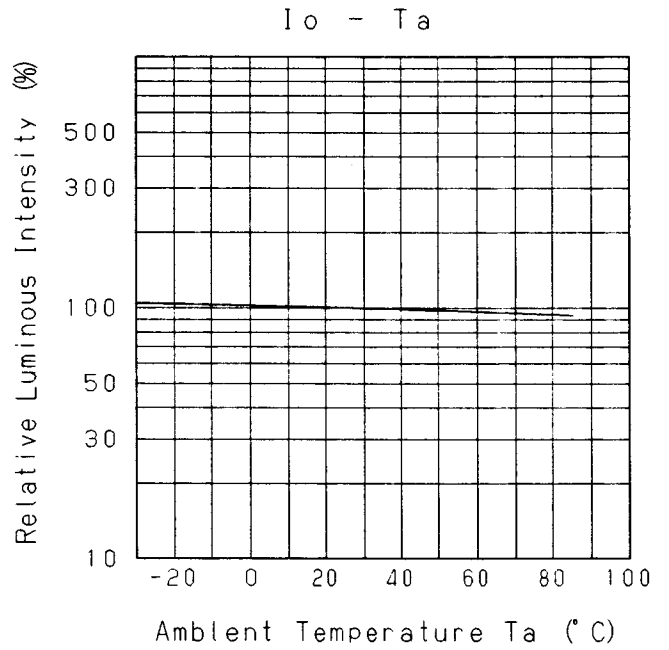
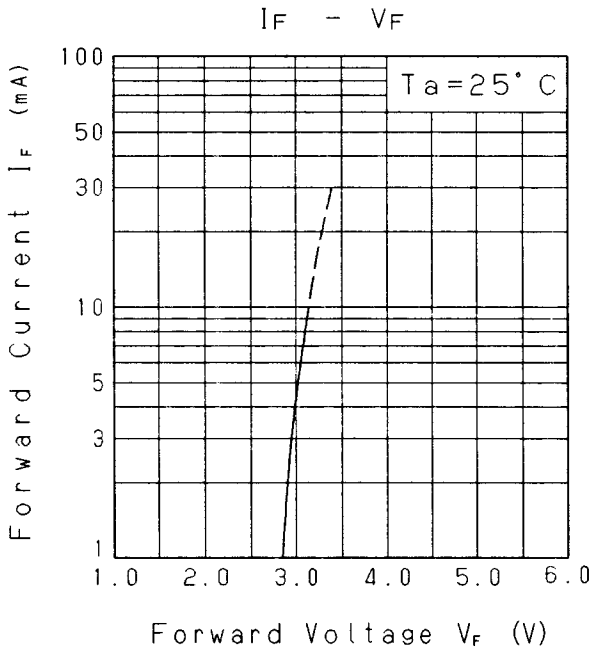
1. Chromatic coordinates will change by the level of operating current.
2. 6ranks classification of chromatic coordinates is available.
3. Tolerance of chromatic coordinates measurement is ± 0.02 .

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DEVELOPMENT SPECIFICATION

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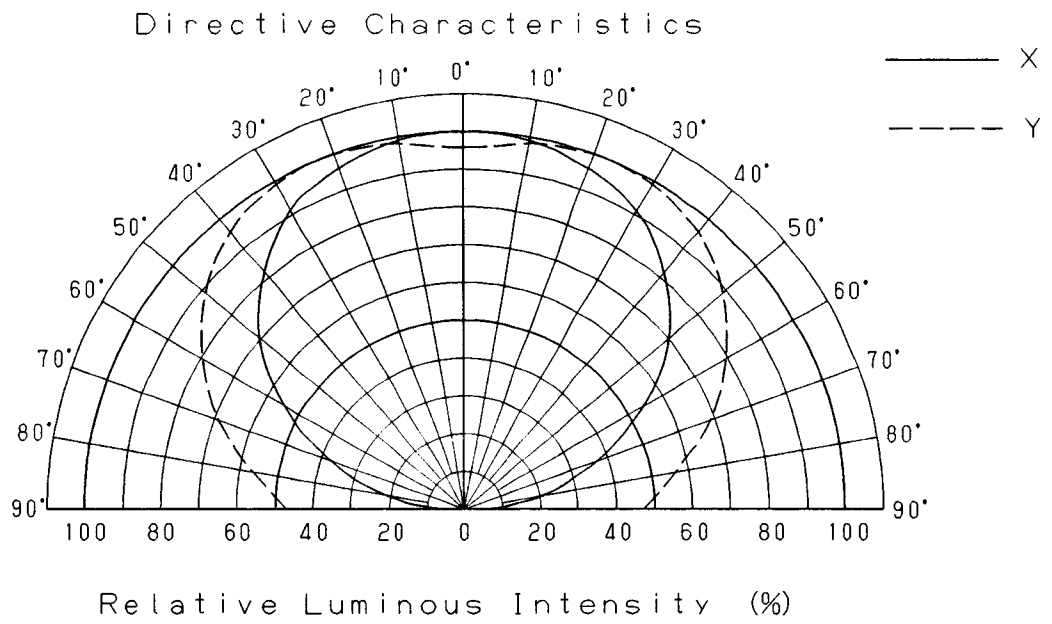
Oct. 2.2002

Feb.21.2003

Approved	Checked	Designed
		<i>T. Takata</i>

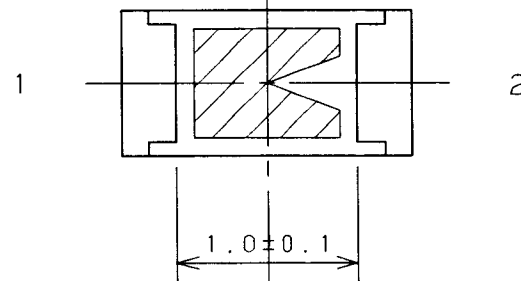
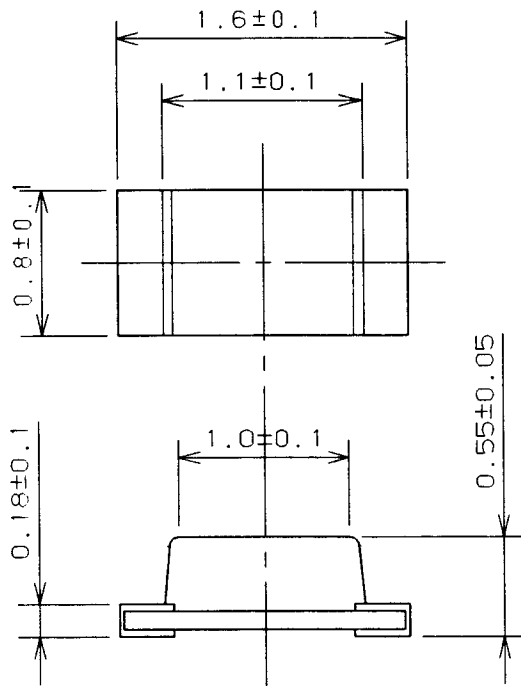
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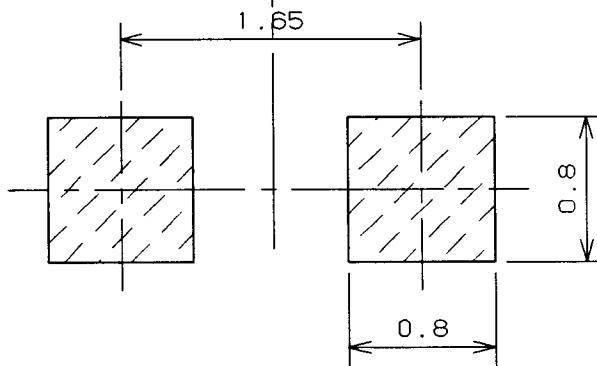


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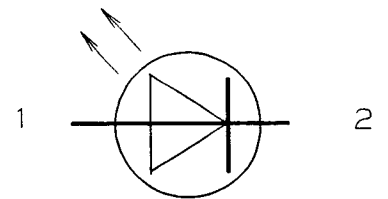
Approved	Checked	Designed <i>T. Tabata</i>	DEVELOPMENT SPECIFICATION (OUTLINE) P/N:LNJ012X8BRA		



Recommended land layout



Polarity



1. Anode
2. Cathode

(NOTE)

- 1. Tolerance unless specified is ± 0.15 .
- 2. Unit: mm

Oct. 2. 2002			