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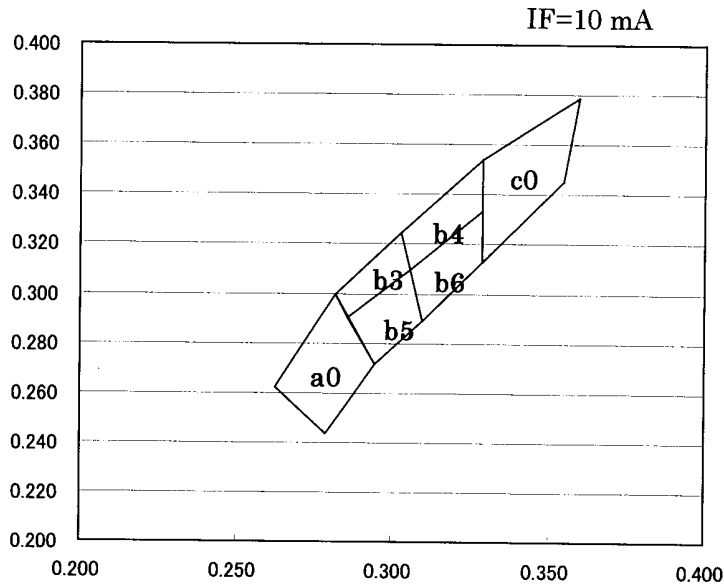
For any questions, you can email us directly:

sales@integrated-circuit.com

Approved	Checked	Designed	DEVELOPMENT SPECIFICATION					
		T. Tabata					P/N : LNJ 0 1 2 X 8 B R A	
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			$T_a = 25 \pm 3 \text{ } ^\circ\text{C}$					
T e s t S p e c i f i c a t i o n								
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.		
F o r w a r d V o l t a g e		V_F	$I_F = 10 \text{ mA} \cdot \text{DC}$	3.2		3.7	V	
R e v e r s e L e a k a g e C u r r e n t		I_R	$V_R = 5 \text{ V}$			10	μA	
L u m i n o u s I n t e n s i t y *2		I_O	$I_F = 10 \text{ mA} \cdot \text{DC}$	76	47		mcd	
C h r o m a t i c c o o r d i n a t e s		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	-	
<p>*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.</p> <p>*2 • Tolerance of luminous intensity is $\pm 20 \%$.</p>								
<p>NOTE</p> <ol style="list-style-type: none"> Soldering conditions. Refer to Handling note. Package; light white diffusion type Care should be taken that soldering is done within 7-days after opening the dry package and reel. 								
Circuit model								
(A)				(B)				
<p>(A) Recommended circuit. (B) The difference of brightness between the LED could be found due to the V_F characteristics of each LED.</p>								
Oct. 2. 2002			Feb. 21. 2003					

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		<i>T. Takata</i>					

Classification of Chromatic coordinates

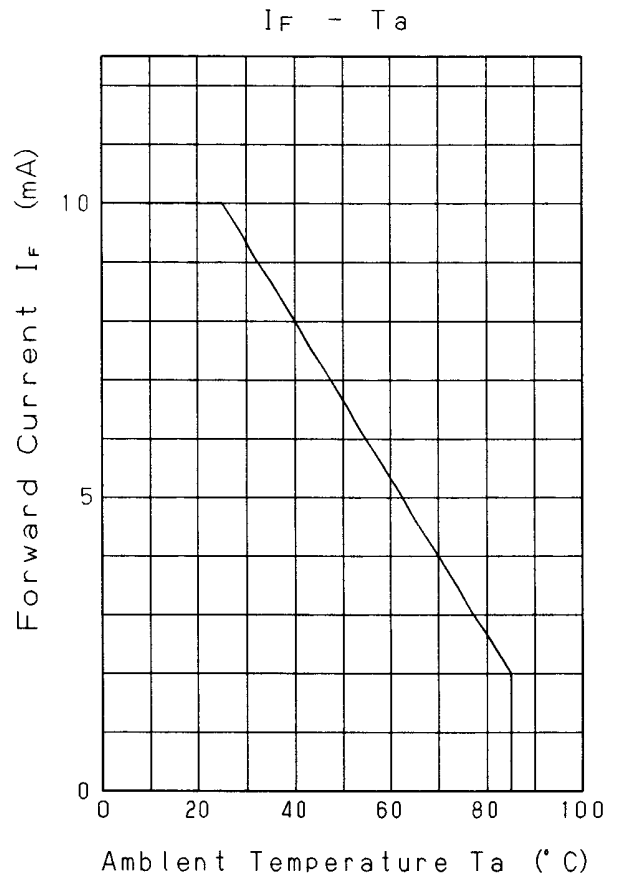
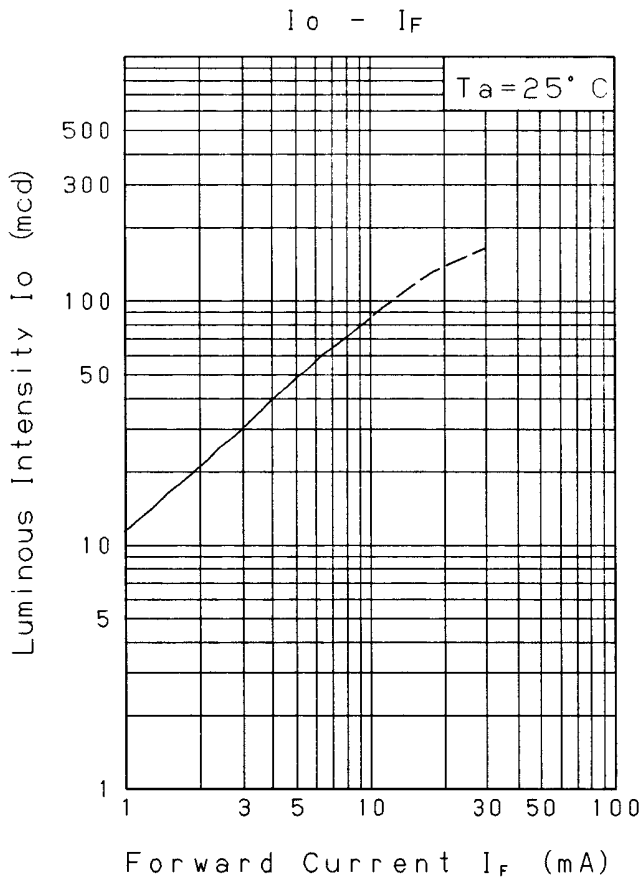
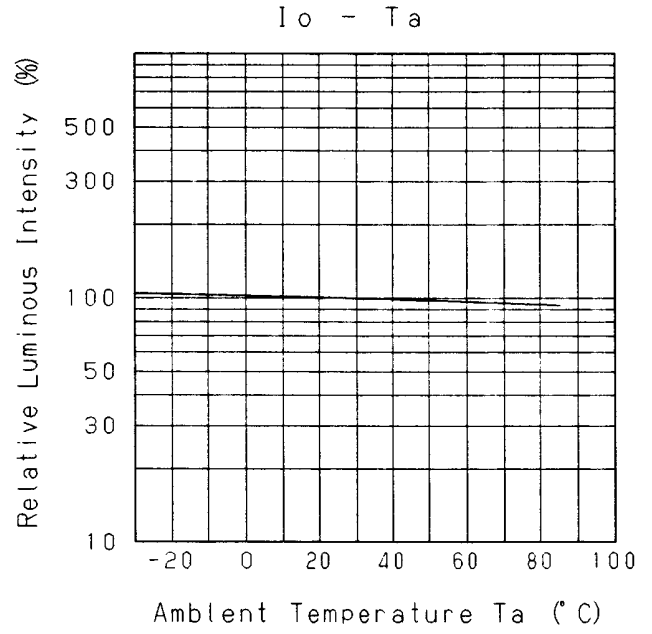
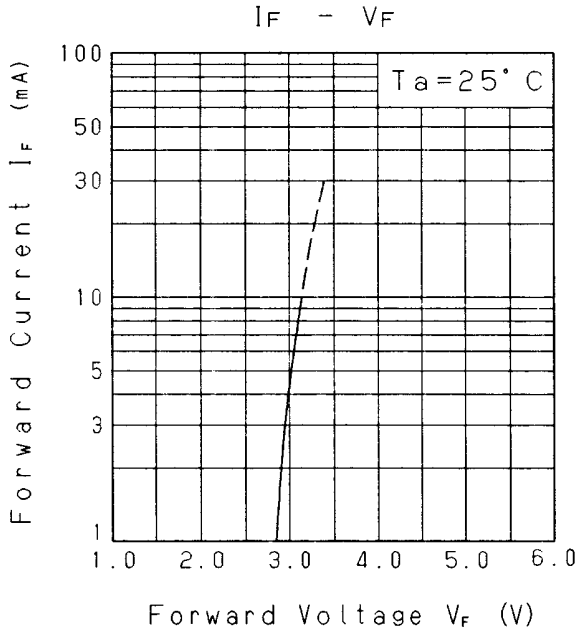


Ranks	x	y	Ranks	x	y
a0	0.275	0.247	b5	0.291	0.275
	0.291	0.275		0.306	0.293
	0.278	0.304		0.302	0.314
	0.260	0.266		0.282	0.294
b3	0.282	0.294	b6	0.306	0.293
	0.302	0.314		0.325	0.317
	0.299	0.329		0.325	0.338
	0.278	0.304		0.302	0.314
b4	0.302	0.314	c0	0.325	0.317
	0.325	0.338		0.350	0.350
	0.325	0.359		0.355	0.383
	0.299	0.329		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 mesurement is ± 0.02 .

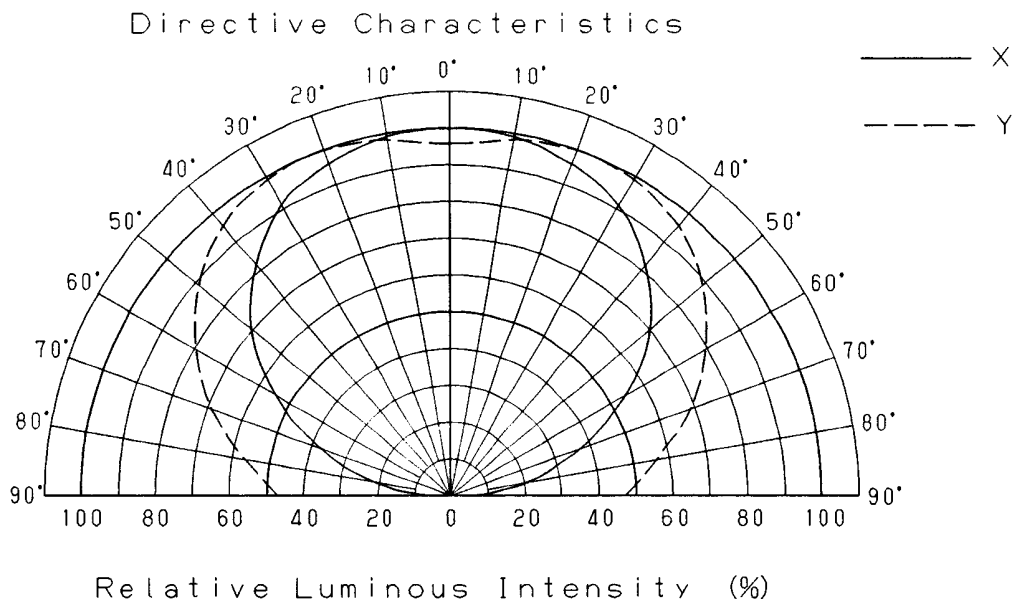
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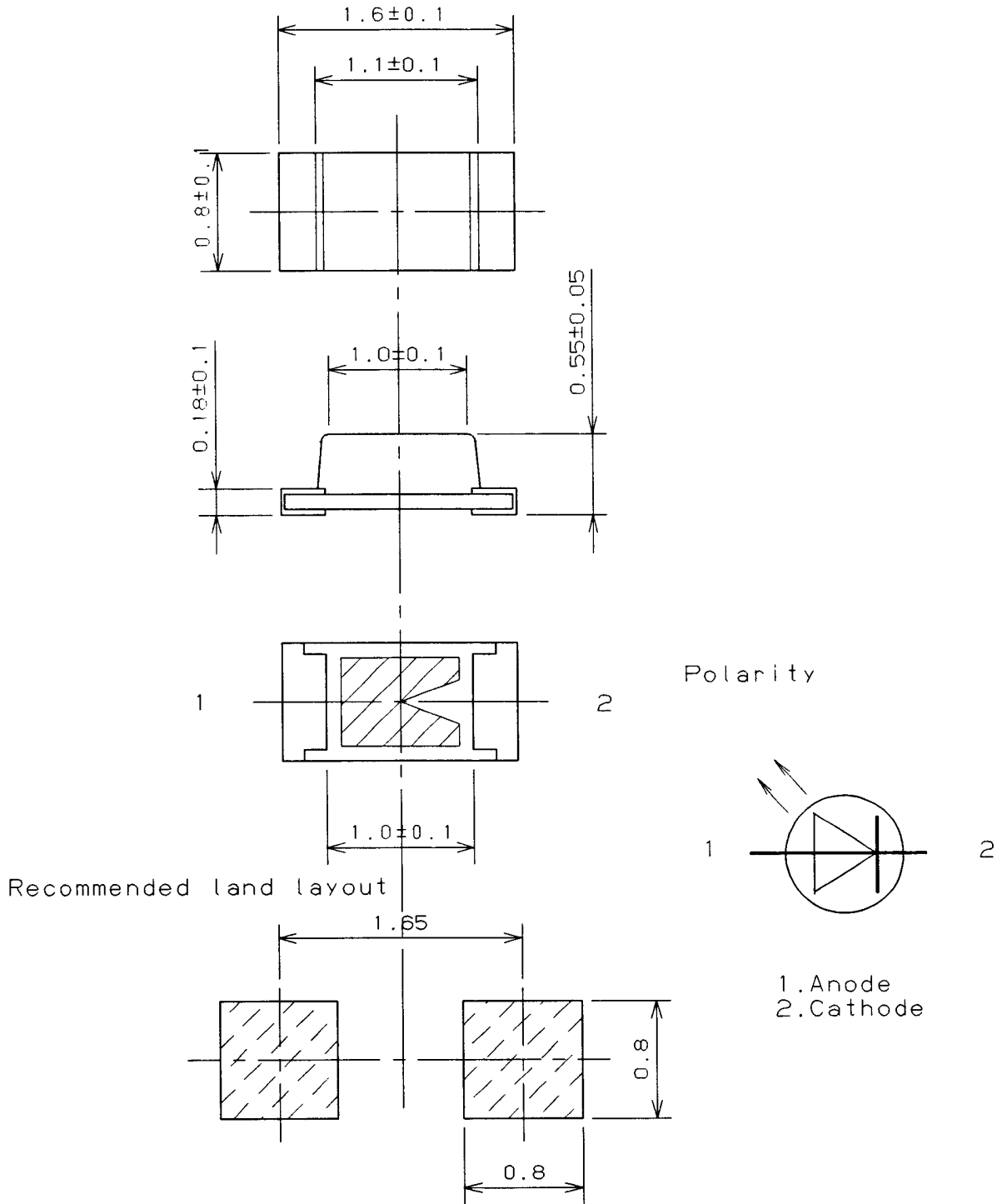
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Oct. 2.2002			

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



(NOTE)
 1. Tolerance unless specified is ± 0.15 .
 2. Unit: mm

Oct. 2.2002			