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SPECIFICATION

PART NO. : LY11BR-G

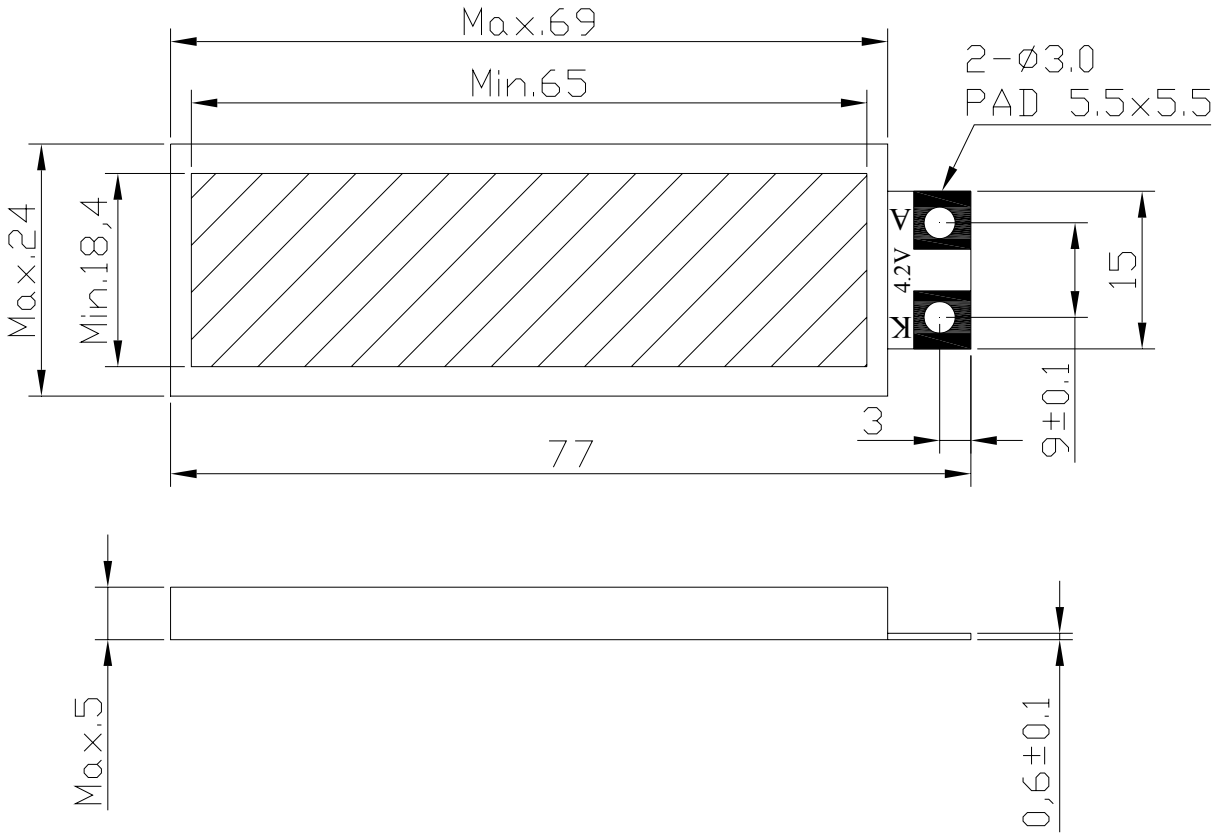
LED BACKLIGHT

Approved by	Checked by	Prepared by
SAM	*SUNNY*	*LEI*

MODIFY RECORD

TAKE EFFECT DATE	MODIFY ISSUES	REMARKS

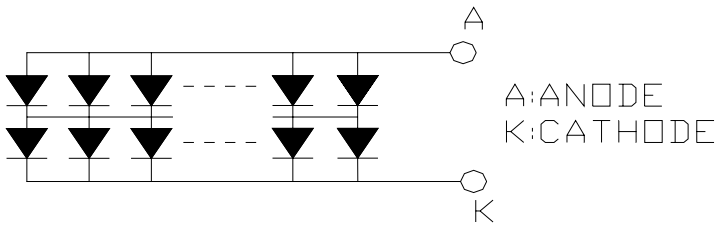
Dimensions



1.All dimensions are in millimeters..

2. Tolerance is ±0.20mm unless otherwise noted.

Internal Circuit Diagram



LED NUMBERS: 12X2=24

Description

Part No.	LED Chip	
	Material	Emitting Color
LY11BR-G	GaP/GaP	Yellow Green

Absolute Maximum Ratings at Ta=25 ℃

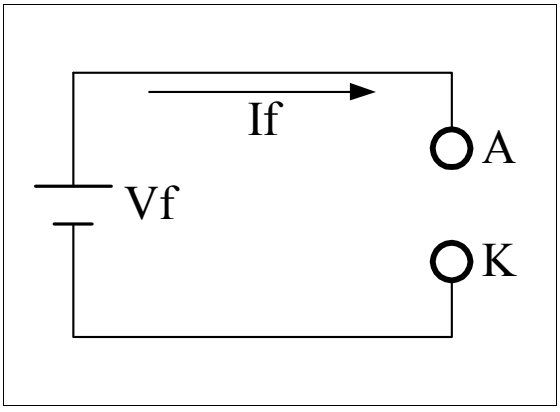
Parameter	Symbol	Rating	Unit
Power Dissipation	P_D	1.152	W
Pulse Current(1/10Duty Cycle,0.1ms Pulse Width.)	I_{FP}	100	mA
Forward Current	I_F	240	mA
Reverse (Leakage)Current	Ir	120	uA
Reverse Voltage	V_R	10	V
Operating Temperature Range	Topr.	-20 to +70	℃
Storage Temperature Range	Tstg.	-30 to +80	℃
Soldering Iron Temp.(1.6mm from seating plane)		350 for 3s MAX.	℃

Electrical and Optical Characteristics:

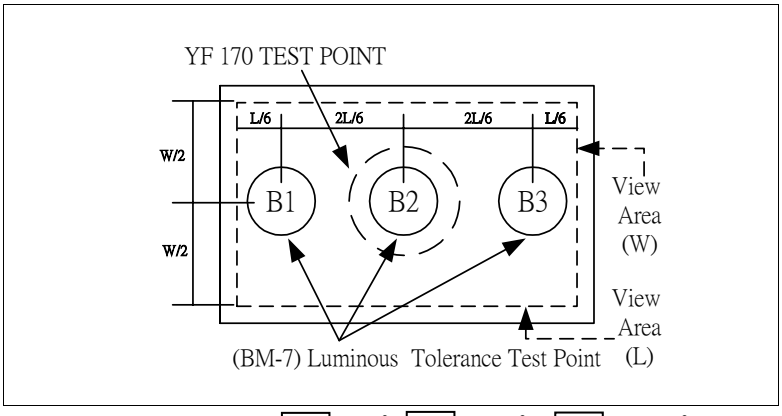
Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Luminous Intensity	Iv	IF=120mA	200	240	-	cd/㎡
Forward Voltage	Vf	IF=120mA	3.8	4.2	4.8	V
Luminous Uniformity		IF=120mA	80	-	-	%
Dominant Wavelength	λd	IF=20mA/per chip	570	573	575	nm
Reverse Current Per Chip (Leakage Current Per Chip)	Ir	Vr=5V	-	-	10	μA
Spectrum Line Halfwidth	Δλ	IF=20mA/per chip	-	30	-	nm

Remark

★1.Testing Method



★2.Measured Method



(1) The test equipment is "TOPCON"BM-7 . Field (θ) ☐ =2° ☑ =1° ☐ =0.2°

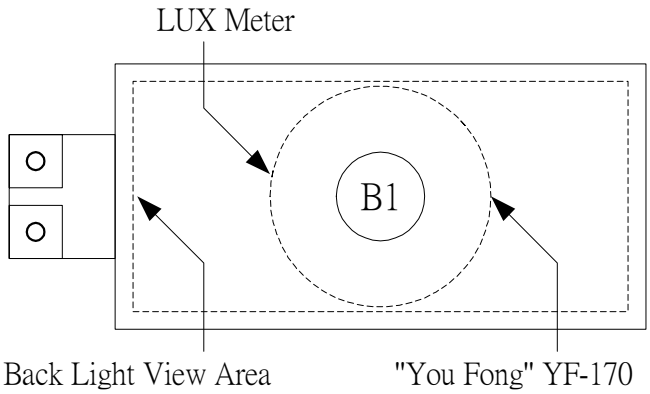
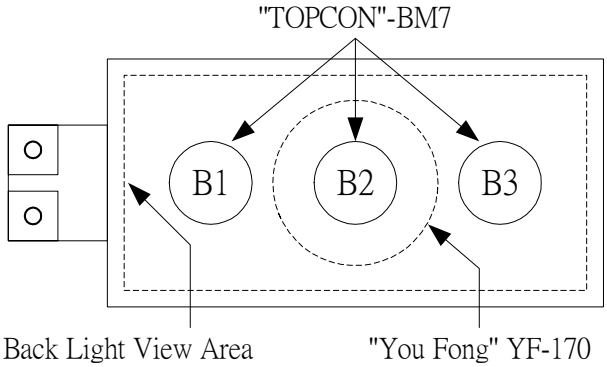
(2)The "TOPCON"BM-7 test position of luminous intensity is B1~B3.

★3. The"TOPCON"BM-7 test

$$\text{Position of luminous Uniformity} = \frac{B(MIN.)}{B(MAX.)} \times 100\%$$

(附表一)

電性、輝度量測表

The test equipment is LUX Meter	The test equipment is “TOPCON”BM-7
	

TEST CONDITIONS : Vin =4.2V ， If = 120 mA Ta=25℃

(1) The test equipment is “TOPCON”BM-7 Field (θ) ■=1° □=0.2° □=0.1

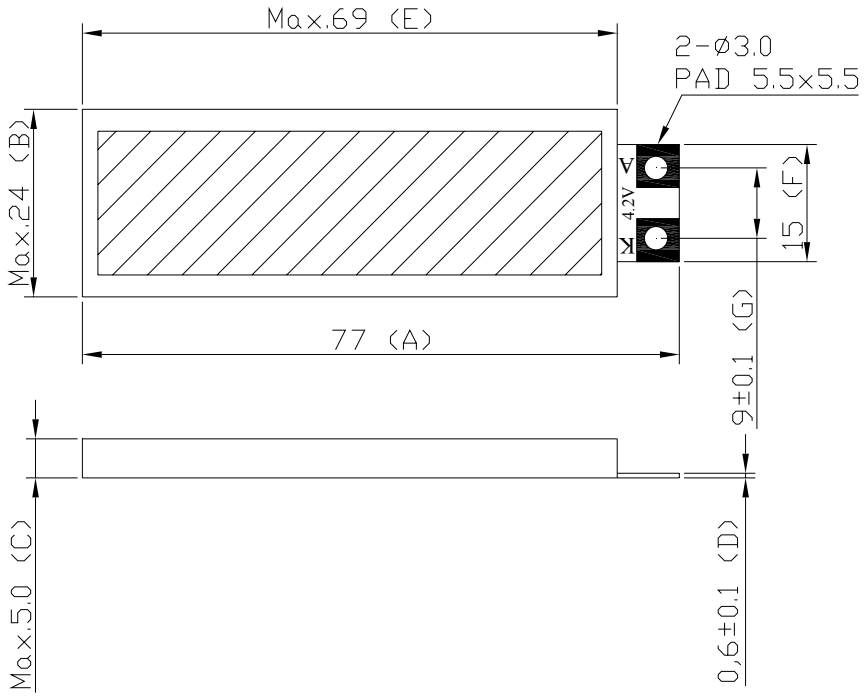
NO	VF	If (mA)	LUX	Location(CD/㎡)						AVG	Uniormity (%)
				B1	B2	B3	B4	B5	B6		
1	4.13	120		251	263	244	-	-	-	253	93
2	4.12	120		292	307	287	-	-	-	295	93
3	4.12	120		287	299	271	-	-	-	286	91
4	4.13	120		266	282	257	-	-	-	268	91
5	4.15	120		263	288	253	-	-	-	268	88

缺點合計：0 次缺點合計：0 結果判定：■ 合格 □ 不合格

(附表二)

外觀尺寸量測記錄表

TC = 25℃



NIT：(mm)						
Specification	NO	1	2	3	4	5
77±0.3	A	77.04	77.02	77.02	77.04	77.01
MAX.24	B	23.93	23.91	23.90	23.89	23.91
MAX.5.0	C	4.86	4.89	4.86	4.83	4.81
0.6±0.1	D	0.66	0.68	0.66	0.67	0.66
MAX.69	E	68.82	68.91	68.86	68.88	68.89
15±0.3	F	14.96	15.03	15.02	14.99	15.06
9±0.1	G	9.05	9.01	8.99	9.03	9.02

主缺點合計：0　次缺點合計：0　結果判定：■ 合格 □ 不合格