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SPECIFICATION

PART NO. : LY11GV-G

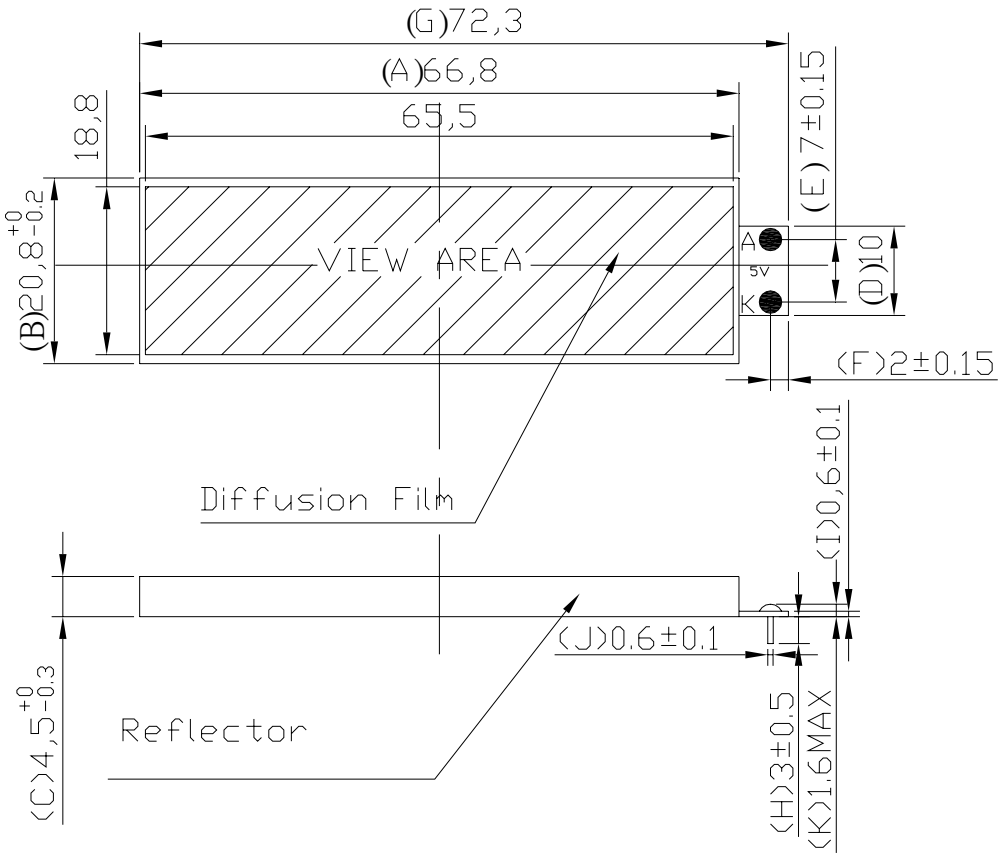
LED BACKLIGHT

Approved by	Checked by	Prepared by
SAM	SUNNY	JUAN

MODIFY RECORD

TAKE EFFECT DATE	MODIFY ISSUES	REMARKS

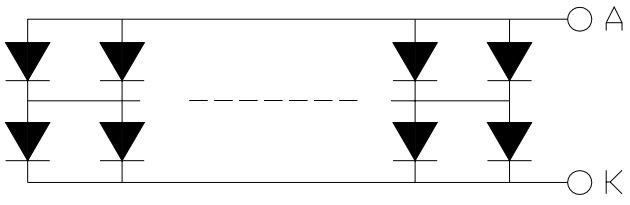
Dimensions



1.All dimensions are in millimeters..

2. Tolerance is ±0.30mm unless otherwise noted.

Internal Circuit Diagram



LED NUMBERS:2X12=24
A:ANODE/K:CATHODE

Description

Part No.	LED Chip	
	Material	Emitting Color
LY11GV-G	GaP/GaP	Yellow Green

Absolute Maximum Ratings at Ta=25 ℃

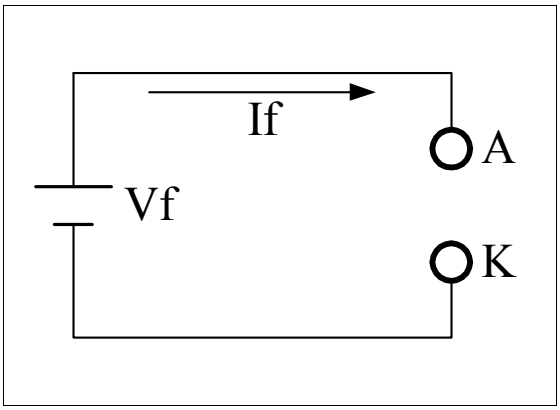
Parameter	Symbol	Rating	Unit
Power Dissipation	P_D	1.152	W
Pulse Current(1/10Duty Cycle,0.1ms Pulse Width.)	I_{FP}	100	mA
Forward Current	I_F	240	mA
Reverse (Leakage)Current	Ir	0.12	mA
Reverse Voltage	V_R	10	V
Operating Temperature Range	Topr.	-20 to +70	℃
Storage Temperature Range	Tstg.	-30 to +80	℃
Lead Soldering Temp.(1.6mm from seating plane)		320 for 3s MAX.	℃

Electrical and Optical Characteristics:

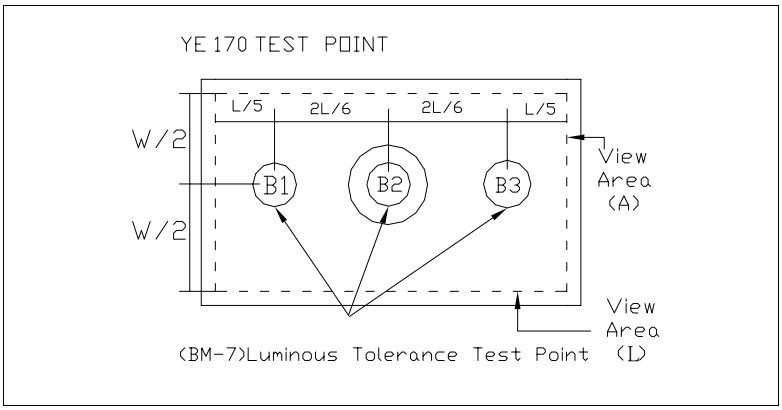
Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Luminous Intensity	Iv	If=120mA	130	185	300	cd/m^2
Forward Voltage	Vf	If=120mA	3.6	4	4.8	V
Luminous Tolerance	-	If=120mA	75	-	-	%
Peak Wavelength	λP	If=20mA/per chip	567	570	573	nm
Spectrum Line Halfwidth	Δλ	If=20mA/per chip	-	30	-	nm
Reverse Current Per chip (Leakage Current Per Chip)	Ir	Vf=10V	-	-	0.12	mA
Chromaticity Coordinates	x	If=120mA	0.40	0.43	0.46	
	y		0.51	0.53	0.56	

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

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