



3Northway Lane North Latham, New York 12110.

Tollfree:1.800.984.5337

Phone:1.518.956.2980

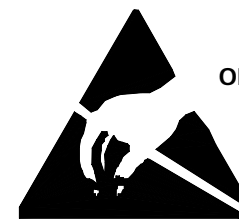
Fax:1.518.785.4725

Http://www.marktechopto.com

SPECIFICATION

PART NO. : MTBL3H11-UYG

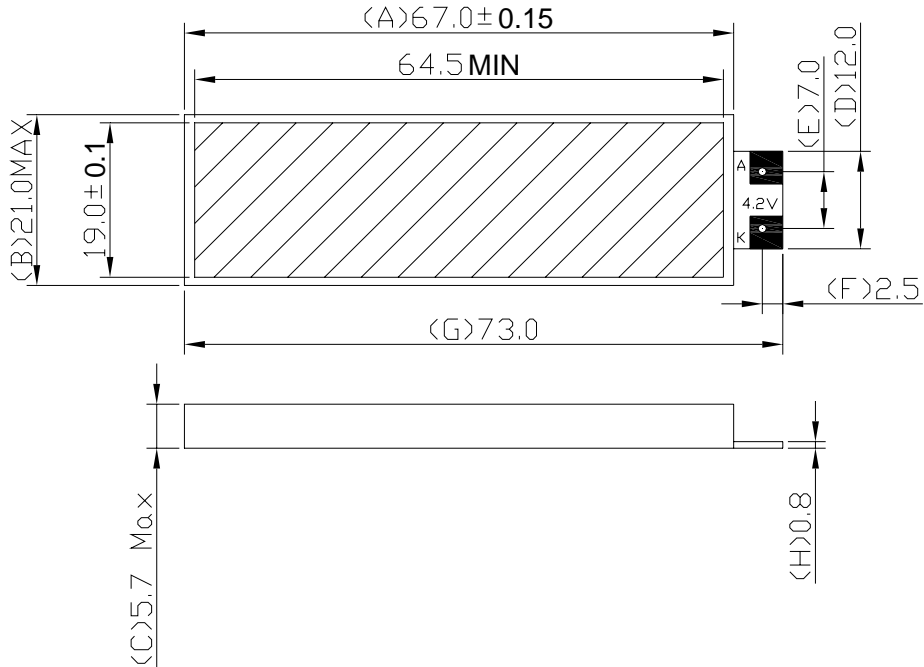
LED BACKLIGHT



ATTENTION

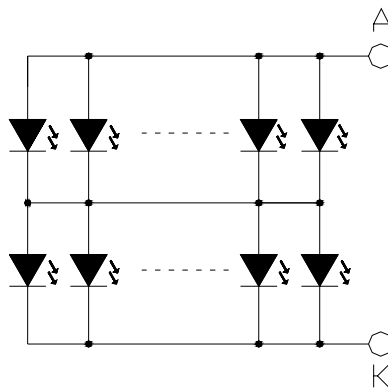
**OBSERVE PRECAUTION
FOR HANDLING
ELECTRO STATIC
SENSITIVE
DEVICES**

Dimensions



1. All dimensions are in millimeters..
2. Tolerance is ±0.20mm unless otherwise noted.

Internal Circuit Diagram



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

Description

Part No.	LED Chip	
	Material	Emitting Color
MTBL3H11-UYG	GaP/GaP	Yellow Green

Absolute Maximum Ratings at Ta=25 °C

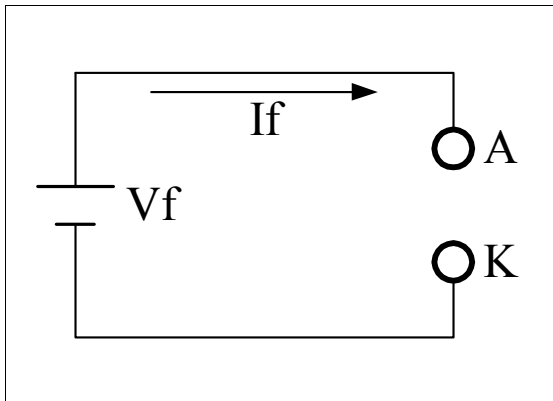
Parameter	Symbol	Rating	Unit
Power Dissipation	P _D	1.056	W
Pulse Current(1/10Duty Cycle,0.1ms Pulse Width.)	I _{FP}	100	mA
Forward Current	I _F	240	mA
Reverse (Leakage)Current	I _r	120	uA
Reverse Voltage	V _R	10	V
Operating Temperature Range	T _{opr.}	-20 to +70	°C
Storage Temperature Range	T _{stg.}	-30 to +80	°C
Soldering Iron Temp.(1.6mm from seating plane)		350 for 3s MAX.	°C

Electrical and Optical Characteristics:

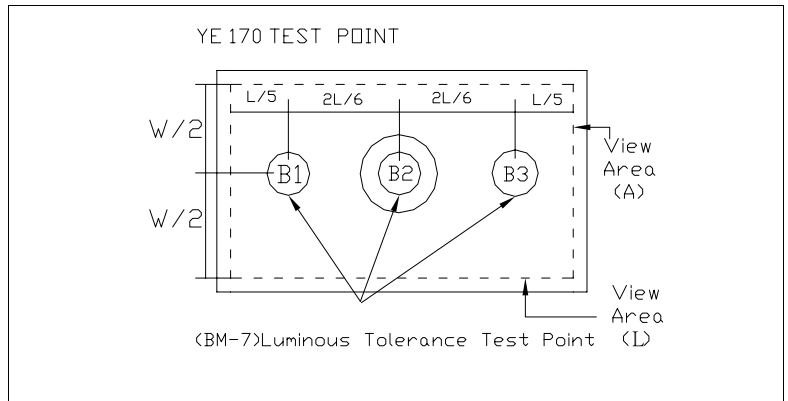
Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Luminous Intensity	Iv	If=120mA	140	205	-	cd/m ²
Forward Voltage	Vf	If=120mA	-	4.1	4.4	V
Luminous Tolerance	-	If=120mA	70	-	-	%
Peak Wavelength	λd	IF=20mA/per chip	570	573	575	nm
Reverse Current Per Chip (Leakage Current Per Chip)	Ir	Vr=5V	-	-	10	uA
Spectrum Line Halfwidth	Δλ	IF=20mA/per chip	-	30	-	nm

Remark

★1. Testing Method



★2. Measured Method



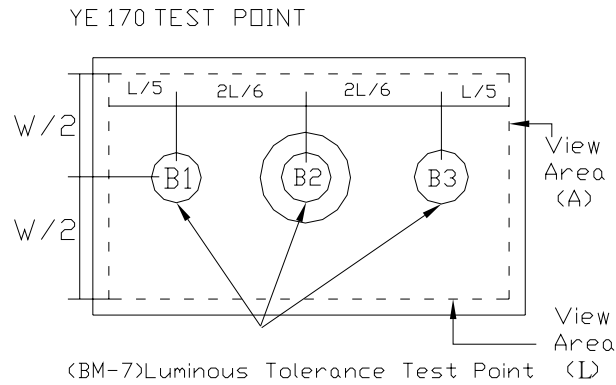
(1) The test equipment is "TOPCON"BM-7 . Field (θ) $\square = 2^\circ$ $\square \nabla = 1^\circ$ $\square = 0.2^\circ$

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

★3. The "TOPCON"BM-7 test

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

The test equipment is "TOPCON"BM-7



(1) The test equipment is "TOPCON"BM-7 Field (θ) =1° =0.2° =0.1

NO	VF (V)	IF (mA)	Location(CD/m ²)						AVG	Uniormity (%)
			B1	B2	B3	B4	B5	B6		
1	4.12	120	198	235	205				213.7	84
2	4.15	120	205	231	223				219.7	89
3	4.17	120	197	226	211				211.3	87
4	4.16	120	200	243	216				219.7	82
5	4.15	120	231	248	222				233.7	90