



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*

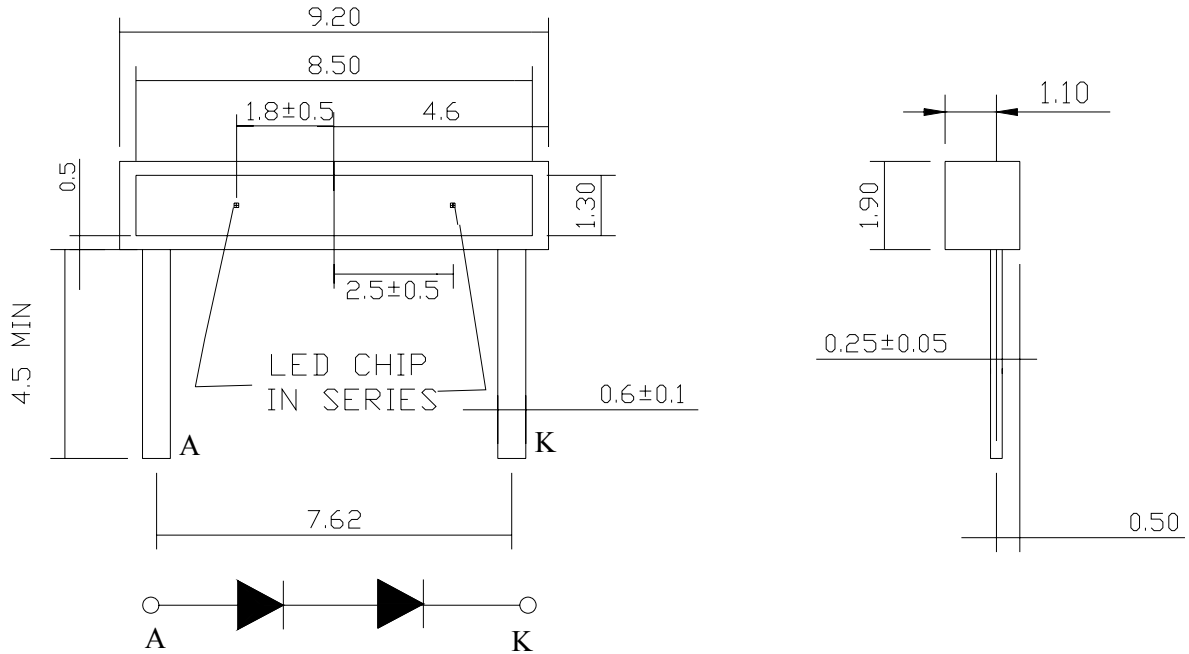
# SPECIFICATION

*PART NO. : MTBL2410-G-A*

*1.9 x 9.2mm SIDE VIEW LAMP*



**Package Dimensions**



**Notes:**

1. ALL DIMENSIONS ARE IN mm.
2. TOLERANCE IS ±0.25mm UNLESS OTHERWISE NOTED.

**Description**

Part No.	LED Chip		Lens Color
	Material	Emitting Color	
MTBL2410-G-A	GaP/GaP	Green	Green Clear

**Absolute Maximum Ratings at Ta=25**

Parameter	Symbol	Rating	Unit
Power Dissipation	P <sub>D</sub>	156	mW
Reverse Voltage	V <sub>R</sub>	10	V
D.C. Forward Current	I <sub>f</sub>	30	mA
Peak Current(1/10Duty Cycle,0.1ms Pulse Width.)	I <sub>f</sub> (Peak)	100	mA
Operating Temperature Range	T <sub>opr.</sub>	-25 to +85	
Storage Temperature Range	T <sub>stg.</sub>	-40 to +100	
Lead Soldering Temp. (1.6mm from body) for 5 seconds.		260	

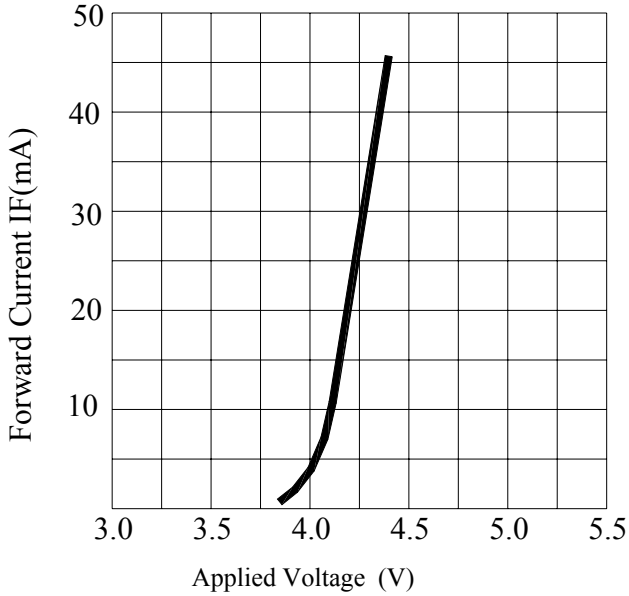
**Electrical and Optical Characteristics:**

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Luminous Intensity	I <sub>v</sub>	I <sub>f</sub> =20mA	13.5	25		mcd
Forward Voltage	V <sub>f</sub>	I <sub>f</sub> =20mA		4.2	5.2	V
Peak Wavelength	λ <sub>P</sub>	I <sub>f</sub> =20mA		567		nm
Dominant Wavelength	λ <sub>D</sub>	I <sub>f</sub> =20mA		572		nm
Reverse Current	I <sub>r</sub>	V <sub>r</sub> =10V			100	μA
Viewing Angle	2 1/2	I <sub>f</sub> =20mA		50		deg
Spectrum Line Halfwidth	Δλ	I <sub>f</sub> =20mA		30		nm

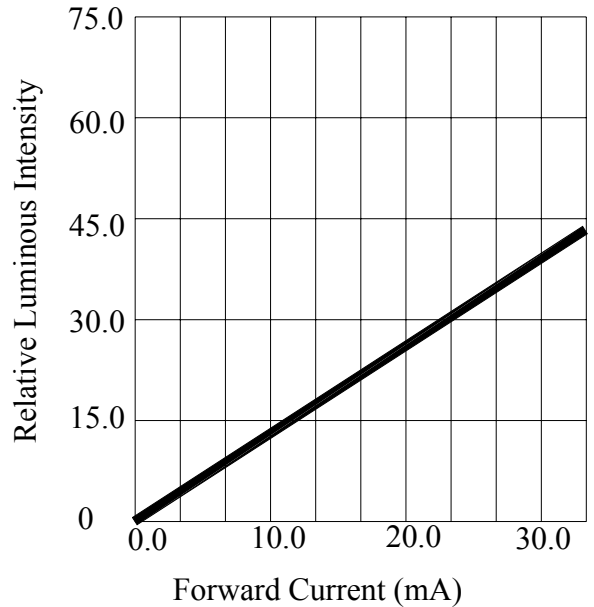
NOTE: THE DATAS TESTED BY IS TESTER

**Typical Electrical/Optical Characteristic Curves**

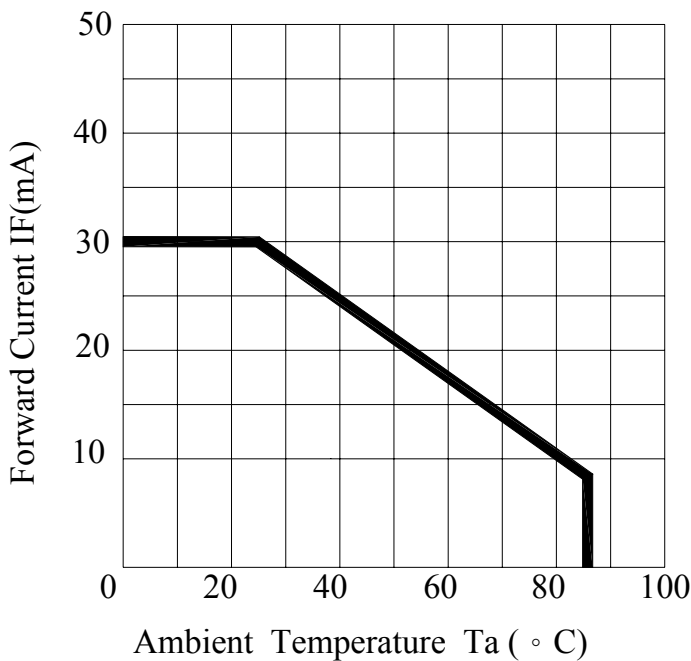
**(25 Ambient Temperature Unless Otherwise Noted)**



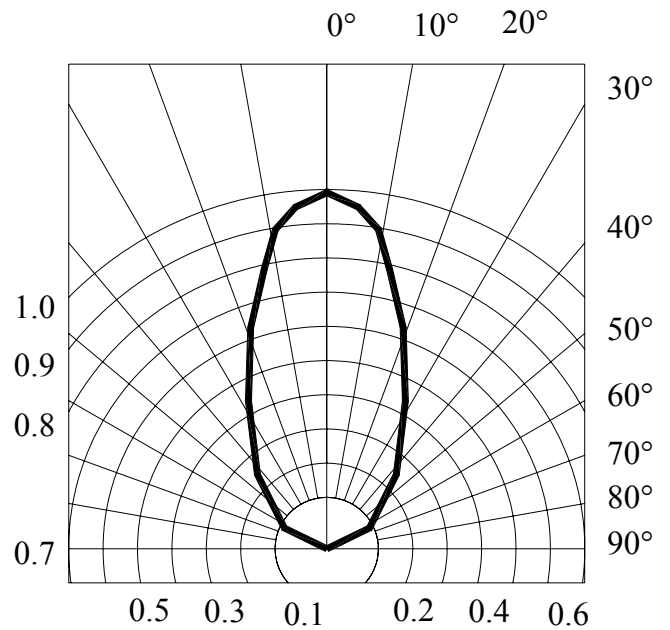
Forward Current VS. Applied Voltage



Forward Current VS. Luminous Intensity



Ambient Temperature vs. Forward Current



Radiation Diagram

**PRECAUTION IN USE**

**Storage**

Recommended storage environment

Temperature: 5°C ~ 30°C (41°F ~ 86°F)

Humidity: 60% RH Max.

Use within 3 days after opening of sealed vapor/ESD barrier bags.

Fold the opened bag firmly and keep in dry environment.

**Soldering**

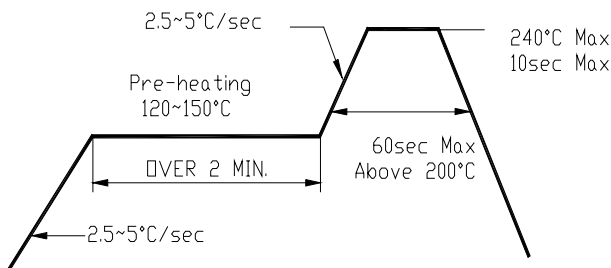
	Reflow Soldering		Hand Soldering	
	Lead Solder	Lead - free Solder	Temperature	350 Max
Pre-heat	120~150	180~200	Soldering time	3sec Max (one time only)
Pre-heat time	120sec Max	120sec Max		
Peak temperature	240 Max	260 Max		
Soldering time	10sec Max	10sec Max		
Condition	refer to Temperature-profile 1	refer to Temperature-profile 2		

\*After reflow soldering rapid cooling should be avoided.

[Temperature-profile (Surface of circuit board)]

Use the conditions shown to the under figure.

< 1 : Lead Solder >



< 2 : Lead-free Solder >

