



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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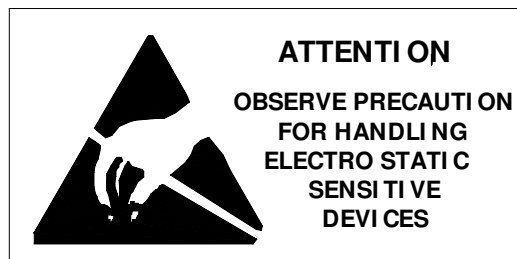
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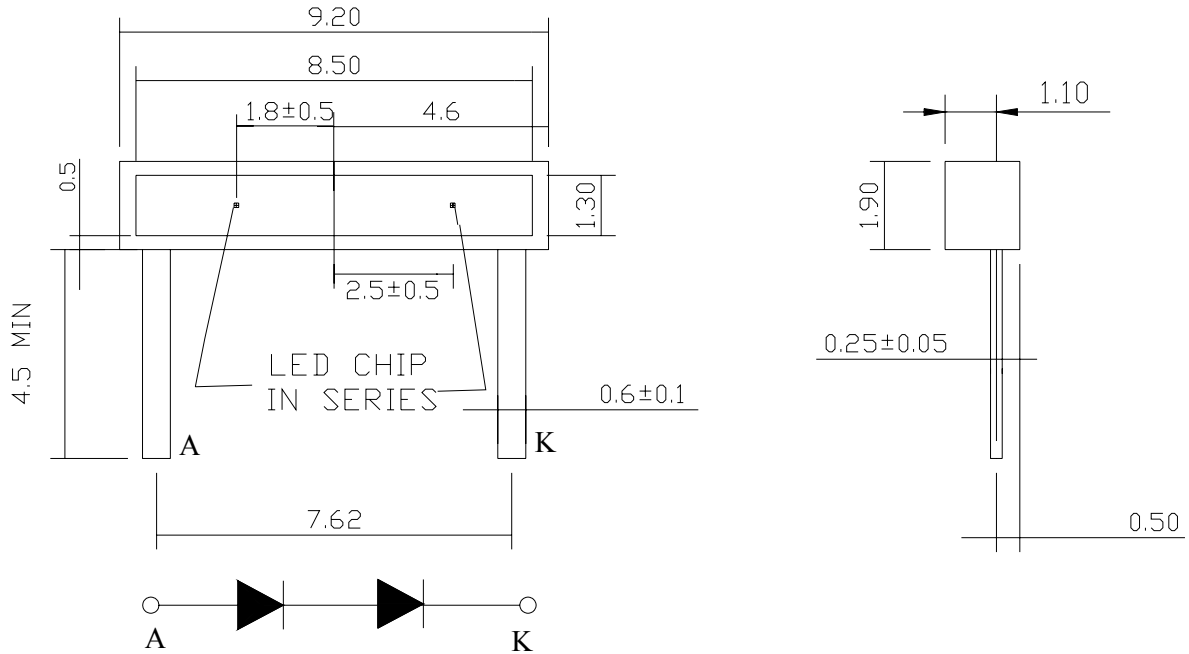
SPECIFICATION

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°C

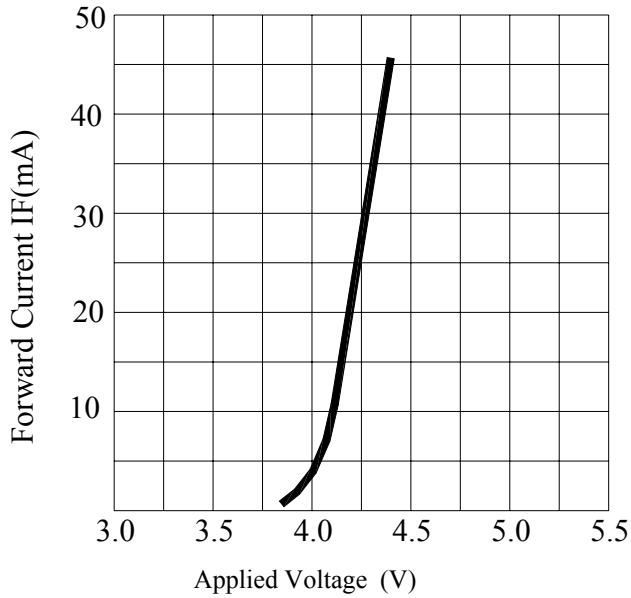
Parameter	Symbol	Rating	Unit
Power Dissipation	P _D	156	mW
Reverse Voltage	V _R	10	V
D.C. Forward Current	I _f	30	mA
Peak Current(1/10Duty Cycle,0.1ms Pulse Width.)	I _f (Peak)	100	mA
Operating Temperature Range	T _{opr.}	-25 to +85	°C
Storage Temperature Range	T _{stg.}	-40 to +100	°C
Lead Soldering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

Electrical and Optical Characteristics:

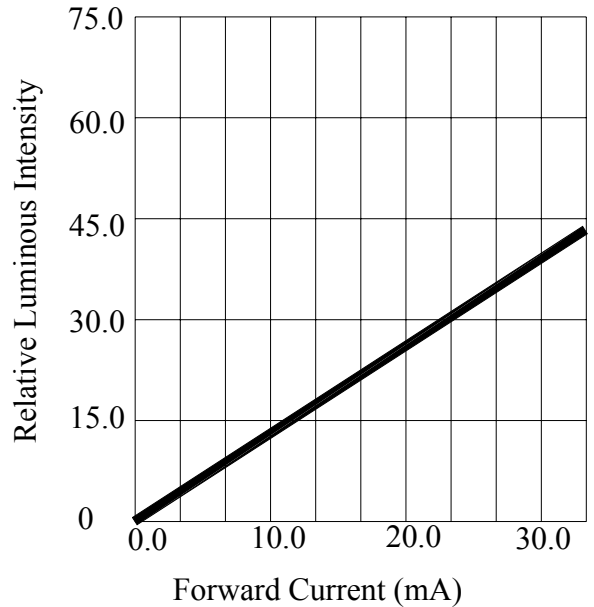
Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Luminous Intensity	I _v	I _f =20mA	13.5	25		mcd
Forward Voltage	V _f	I _f =20mA		4.2	5.2	V
Peak Wavelength	λ _P	I _f =20mA		567		nm
Dominant Wavelength	λ _D	I _f =20mA		572		nm
Reverse Current	I _r	V _r =10V			100	μA
Viewing Angle	2θ 1/2	I _f =20mA		50		deg
Spectrum Line Halfwidth	Δλ	I _f =20mA		30		nm

NOTE: THE DATAS TESTED BY IS TESTER

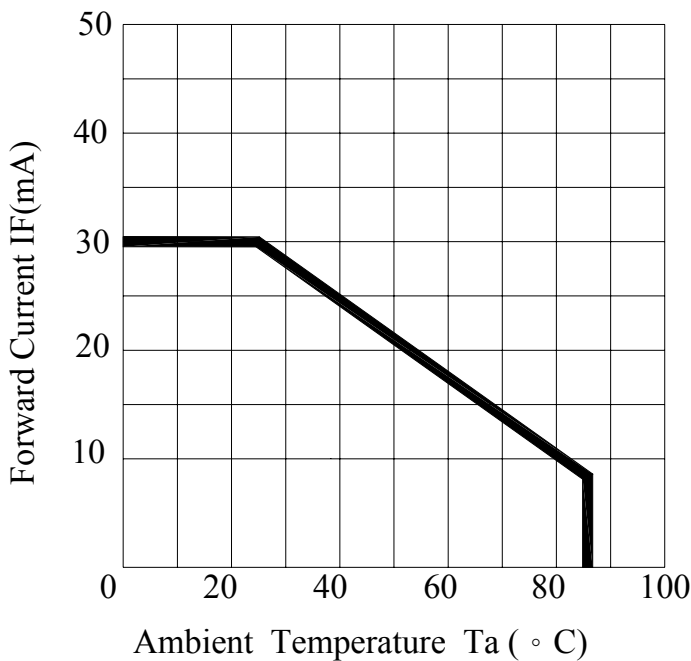
**Typical Electrical/Optical Characteristic Curves
(25°C Ambient Temperature Unless Otherwise Noted)**



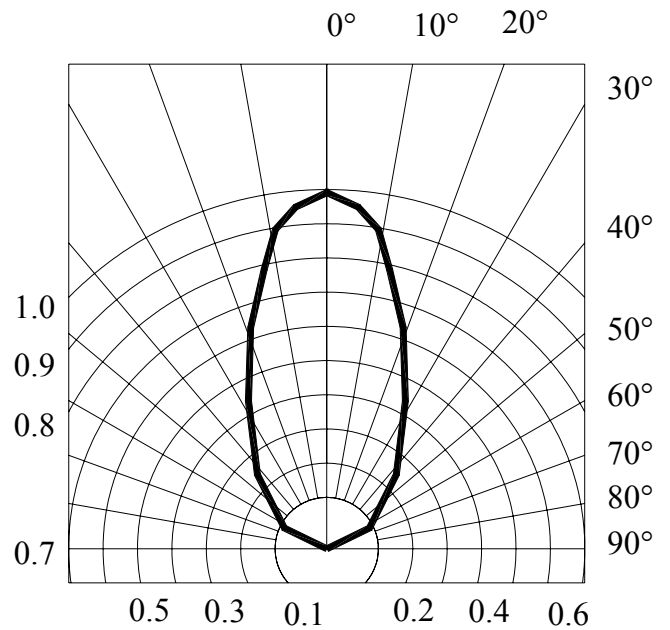
Forward Current VS. Applied Voltage



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

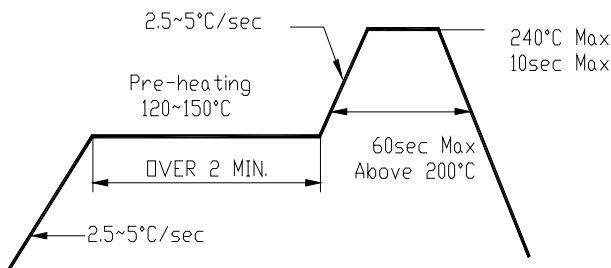
	Reflow Soldering		Hand Soldering	
	Lead Solder	Lead – free Solder	Temperature	350°C Max
Pre-heat	120~150°C	180~200°C	Soldering time	3sec Max (one time only)
Pre-heat time	120sec Max	120sec Max		
Peak temperature	240°C Max	260°C Max		
Soldering time	10sec Max	10sec Max		
Condition	refer to Temperature-profile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

