

## 5mm LEDs

Order code	Manufacturer code	Description
55-1482	L-7113MBTL	5MM LIGHT BLUE LED (RC)

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The enclosed information is believed to be correct, Information may change 'without notice' due to	Revision A <sup>4</sup>
product improvement. Users should ensure that the product is suitable for their use. E. & O. E.	12/12/2006

Technical: 01206 835555 Tech@rapidelec.co.uk

# Kingbright

## T-1 3/4 (5mm) SOLID STATE LAMP



ATTENTION OBSERVE PRECAUTIONS FOR HANDLING ELECTROSTATIC DISCHARGE SENSITIVE DEVICES

L-7113MBTL

BLUE

PRELIMINARY SPEC

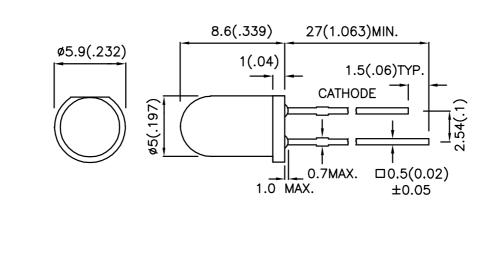
## Features

- •LOW POWER CONSUMPTION.
- •POPULAR T-1 3/4 DIAMETER PACKAGE.
- •GENERAL PURPOSE LEADS.
- •RELIABLE AND RUGGED.
- ●LONG LIFE SOLID STATE RELIABILITY.
- •AVAILABLE ON TAPE AND REEL.
- •RoHS COMPLIANT.

### Description

The Blue source color devices are made with GaN on SiC Light Emitting Diode. Static electricity and surge damage the LEDS. It is recommended to use a wrist band or anti-electrostatic glove when handling the LEDs. All devices, equipment and machinery must be electrically grounded.

### **Package Dimensions**



#### Notes:

- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is  $\pm 0.25 (0.01")$  unless otherwise noted.
- 3. Lead spacing is measured where the leads emerge from the package.

4. Specifications are subject to change without notice.

## SPEC NO: DSAB7666 APPROVED: J. Lu

REV NO: V.2 CHECKED: Allen Liu DATE: JUN/04/2005 DRAWN: B.H.LI

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Selection Guide					
Part No.	Dice	Lens Type	lv (mcd) @ 20mA		Viewing Angle
			Min.	Тур.	2 0 1/2
L-7113MBTL	BLUE (GaN)	BLUE TRANSPARENT	70	200	16°

Note:

1.  $\theta$ 1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

## Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Blue	430		nm	IF=20mA
λD	Dominant Wavelength	Blue	466		nm	IF=20mA
Δλ1/2	Spectral Line Half-width	Blue	60		nm	IF=20mA
С	Capacitance	Blue	100		pF	VF=0V;f=1MHz
Vf	Forward Voltage	Blue	3.8	4.5	V	IF=20mA
IR	Reverse Current	Blue		10	uA	VR = 5V

## Absolute Maximum Ratings at TA=25°C

Parameter	Blue	Units		
Power dissipation	105	mW		
DC Forward Current	30	mA		
Peak Forward Current [1]	150	mA		
Reverse Voltage	5	V		
Operating / Storage Temperature	-40°C To +85°C			
Lead Solder Temperature [2]	260°C For 3 Seconds			
Lead Solder Temperature [3]	260°C For 5 Seconds			

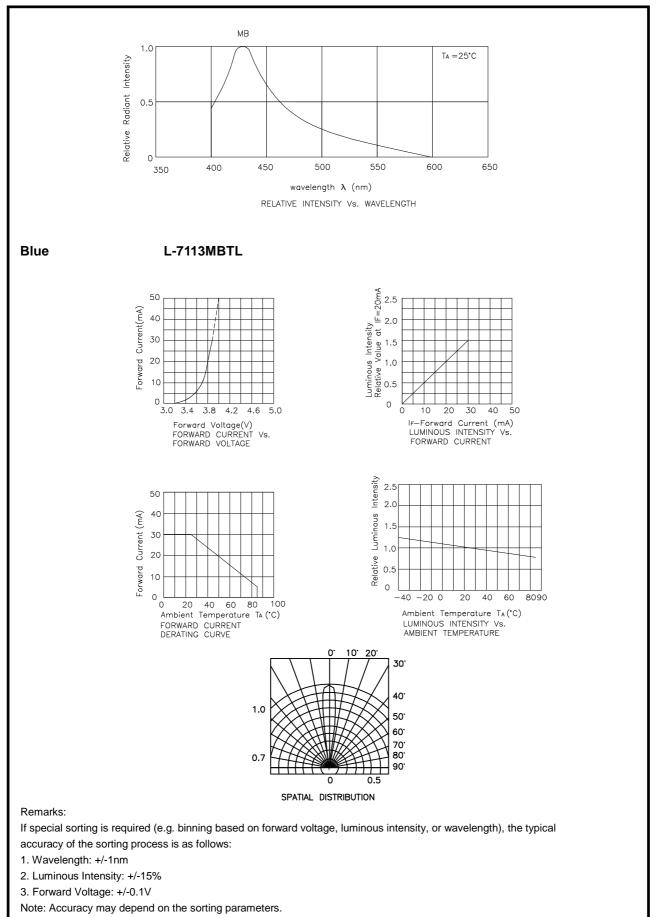
Notes:

1. 1/10 Duty Cycle, 0.1ms Pulse Width.

2. 2mm below package base.

3. 5mm below package base.

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