# **Kingbright**

# T-1 (3mm) SOLID STATE LAMP



ATTENTION
OBSERVE PRECAUTIONS
FOR HANDLING
ELECTROSTATIC
DISCHARGE
SENSITIVE
DEVICES

L-934MBDL-12V

BLUE

### PRELIMINARY SPEC

#### **Features**

- LOW POWER CONSUMPTION.
- POPULAR T-1 DIAMETER PACKAGE.
- GENERAL PURPOSE LEADS.
- RELIABLE AND RUGGED.
- LONG LIFE SOLID STATE RELIABILITY.
- 12V INTERNAL RESISTOR.

### **Description**

The Blue source color devices are made with GaN on SiC Light Emitting Diode.

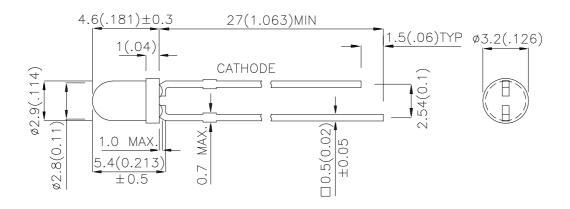
Static electricity and surge damage the LEDS.

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 lead emerge package.
- 4. Specifications are subject to change without notice.

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### **Selection Guide**

Part No.	Dice	Lens Type	Iv (mcd) V=12V Min. Typ.		Viewing Angle
					2 θ 1/2
L-934MBDL-12V	BLUE (GaN)	BLUE DIFFUSED	12	20	60°

# Electrical / Optical Characteristics at Ta=25°C

Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Blue	430		nm	VF=12V
λD	Dominate Wavelength	Blue	466		nm	VF=12V
Δλ1/2	Spectral Line Half-width	Blue	60		nm	VF=12V
I <sub>F</sub>	Forward Current	Blue	7.5	10	mA	VF=12V
I <sub>R</sub>	Reverse Current	Blue		10	uA	VR= 5V

## Absolute Maximum Ratings at Ta=25°C

Parameter	Blue	Units
Power dissipation	120	mW
Forward Voltage	14	V
Reverse Voltage	5	V
Operating Temperature	-40°C To +70°C	
Storage Temperature	torage Temperature -40°C To +85°C	
Lead Solder Temperature[1] 260°C For 5 Seconds		

Note:

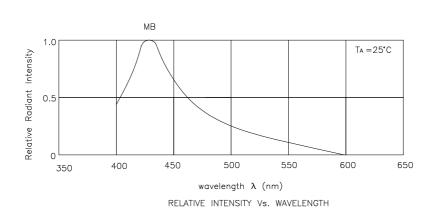
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<sup>1.</sup>  $\theta$ 1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

<sup>1. 2</sup>mm below package base.

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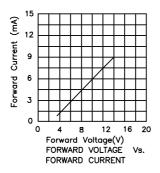
Blue L-934MBDL-12V

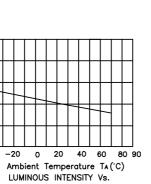
Relative Luminous Intensity

2.0 1.5

1.0

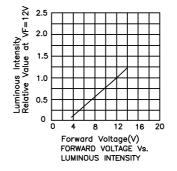
0

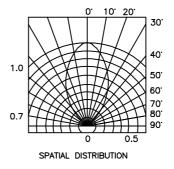




AMBIENT TEMPERATURE

**CHECKED: Allen Liu** 





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