

Selection Guide

| Part No. | Dice | Lens Type | Iv (mcd) @ 20mA | | Viewing Angle |
|-----------|------------|---------------|--------------------|------|------------------|
| | | | Min. | Typ. | 2 θ 1/2 |
| L-934MBDK | BLUE (GaN) | BLUE DIFFUSED | 7 | 25 | 60° |

Note:

1. θ1/2 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 | Typ. | Max. | Units | Test Conditions |
|-------------------|--------------------------|--------|------|------|-------|-----------------|
| λ _{peak} | Peak Wavelength | Blue | 430 | | nm | IF=20mA |
| λ _D | Dominant Wavelength | Blue | 466 | | nm | IF=20mA |
| Δλ _{1/2} | Spectral Line Half-width | Blue | 60 | | nm | IF=20mA |
| C | Capacitance | Blue | 100 | | pF | VF=0V;f=1MHz |
| VF | Forward Voltage | Blue | 4.0 | 5.2 | V | IF=20mA |
| IR | Reverse Current | Blue | | 10 | uA | VR = 5V |

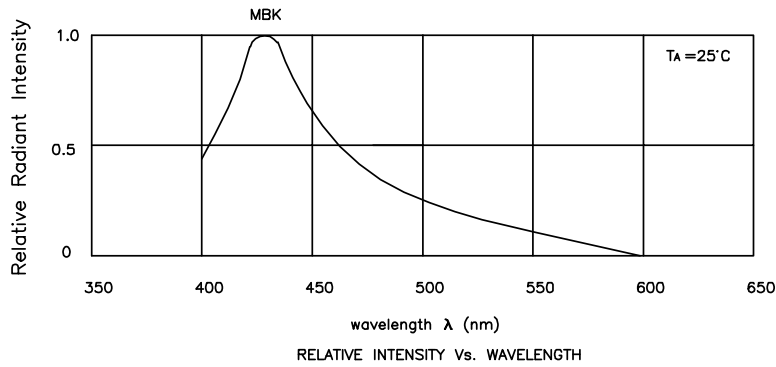
Absolute Maximum Ratings at TA=25°C

| 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:

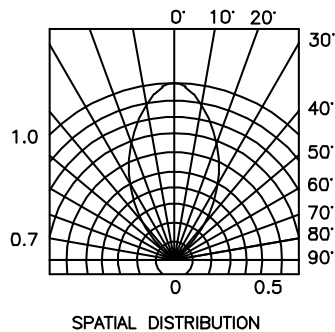
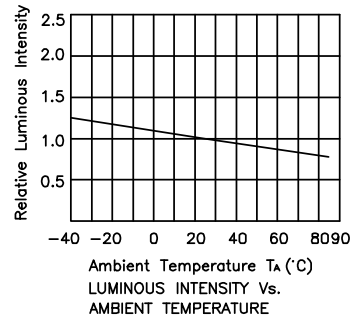
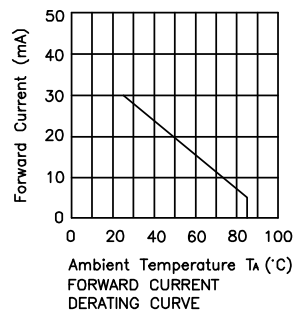
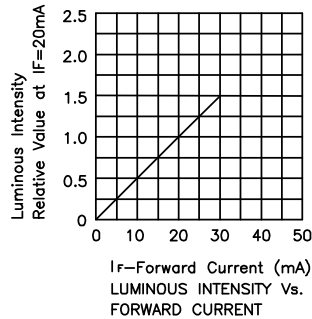
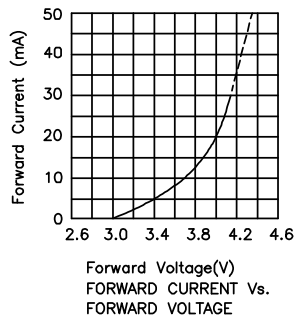
- 1/10 Duty Cycle, 0.1ms Pulse Width.
- 2mm below package base.
- 5mm below package base.

Kingbright



Blue

L-934MBDK



Remarks:

If special sorting is required (e.g. binning based on forward voltage, luminous intensity, or wavelength), the typical accuracy of the sorting process is as follows:

1. Wavelength: +/-1nm
2. Luminous Intensity: +/-15%
3. Forward Voltage: +/-0.1V

Note: Accuracy may depend on the sorting parameters.