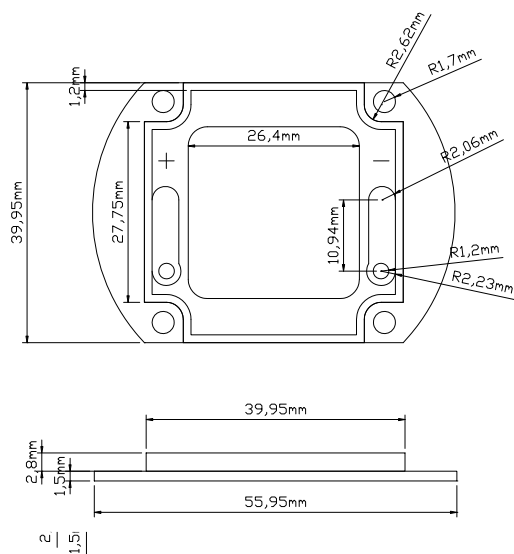


## Package Dimensions



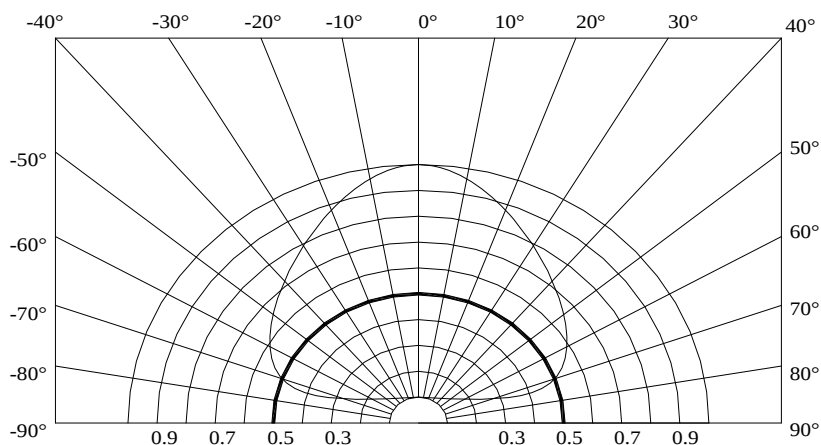
## Material's Picture



## Notes

1. All dimensions are in millimeters (inches).
2. Tolerance is  $\pm 0.25\text{mm}$  (0.010") unless otherwise noted.
3. Protruded resin under flange is 1.0mm (0.04") max.
4. Lead spacing is measured where the leads emerge from the package.
5. Specifications are subject to change without notice.

## Spatial Distribution



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

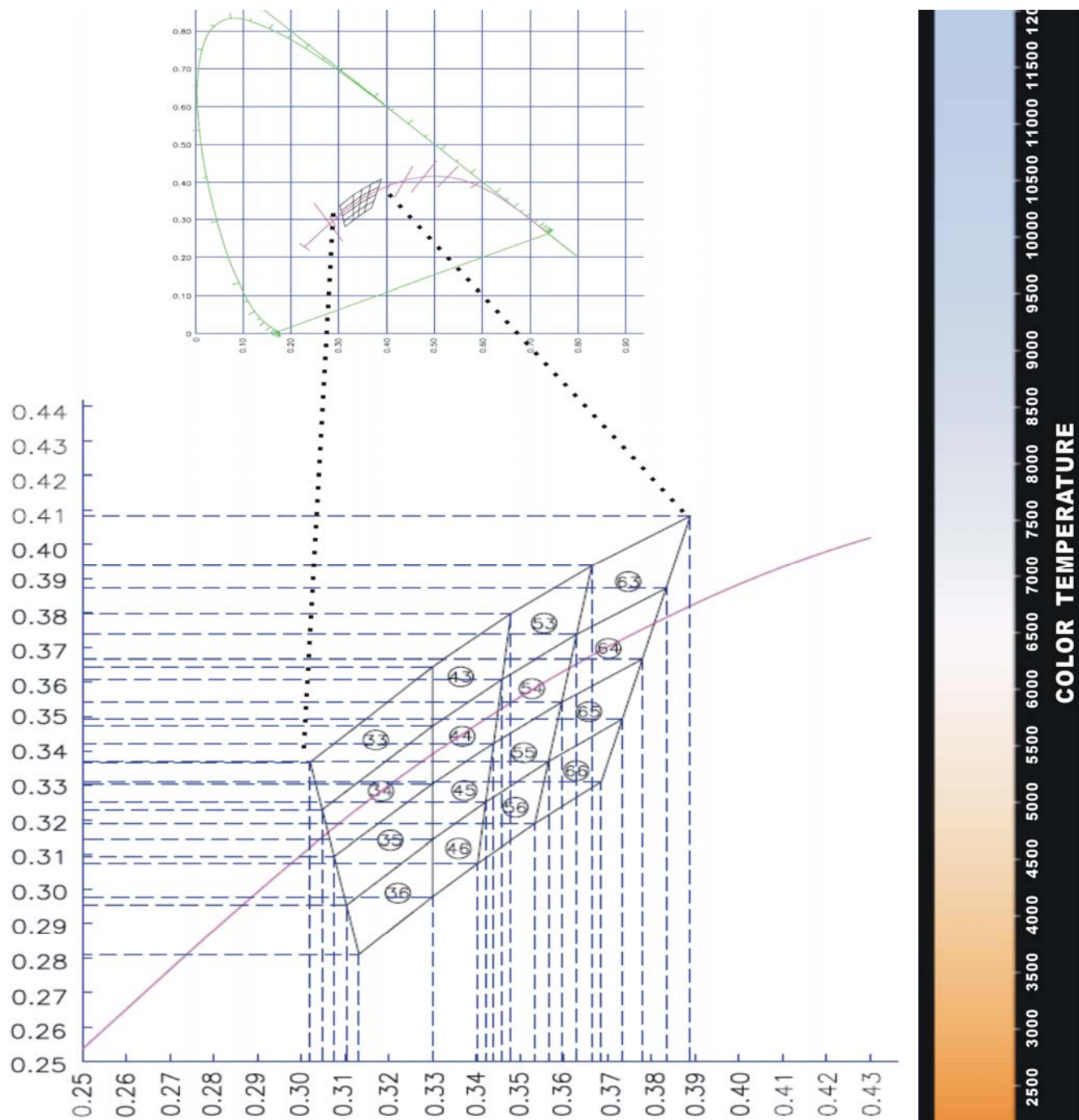
| Parameter                | Symbol           | Min.  | Typ.  | Max.  | Unit    | Test Condition |
|--------------------------|------------------|-------|-------|-------|---------|----------------|
| Luminous Intensity       | $\Phi$           | 4000  | 4200  | 4500  | lm      | IF =1750mA     |
| Viewing Angle            | 2 $\theta$ 1/2   |       | 140   |       | deg     | IF =1750mA     |
| Domain Wavelength        | Tc               | 6000  | 6500  | 7000  | K       | IF =1750mA     |
| Spectral Line Half-Width | $\Delta \lambda$ |       |       |       | nm      | IF =1750mA     |
| Forward Voltage          | VF               | 34,00 | 35,00 | 36,00 | V       | IF =1750mA     |
| Reverse Current          | IR               |       |       | 20    | $\mu$ A | VR = 5V        |

**Absolute Maximum Ratings at TA=25°C**

| Parameter                                                    | Maximum Rating      |
|--------------------------------------------------------------|---------------------|
| Power Dissipation                                            | 50W                 |
| Peak Forward Current<br>(1/10 Duty Cycle, 0.1ms Pulse Width) | 3000mA              |
| Continuous Forward Current                                   | 1750mA              |
| Derating Linear From 30°C                                    | 0.8mA/°C            |
| Reverse Voltage                                              | 5V                  |
| Operating Temperature Range                                  | -35°C to + 60°C     |
| Storage Temperature Range                                    | -35°C to + 60°C     |
| Lead Soldering Temperature<br>[1.6mm(.063") From Body]       | 300°C for 5 Seconds |

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**SPECIFICATION FOR APPROVAL****Chromaticity Coordinate Groups**

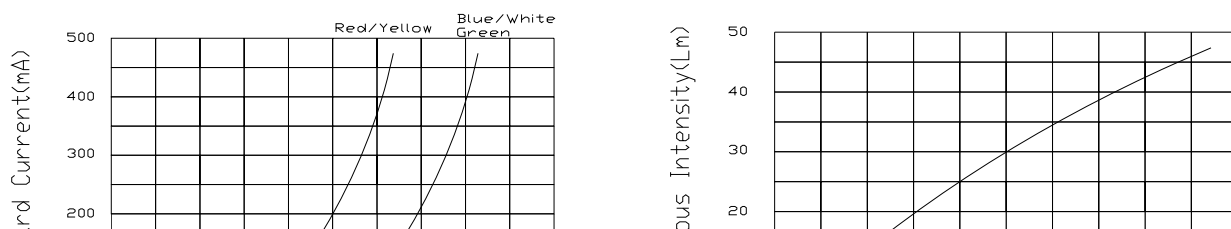


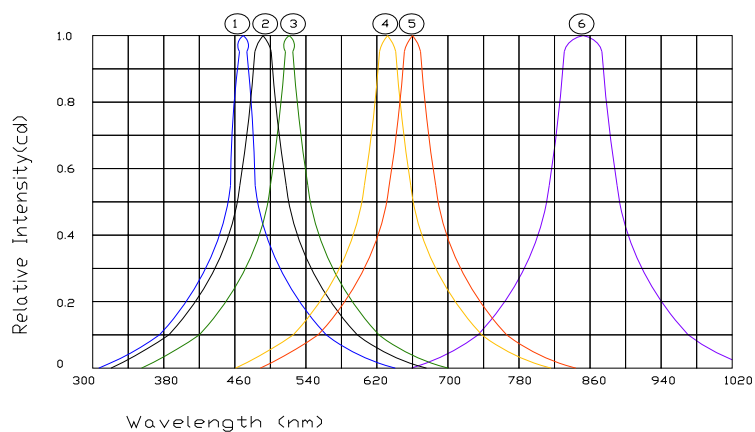
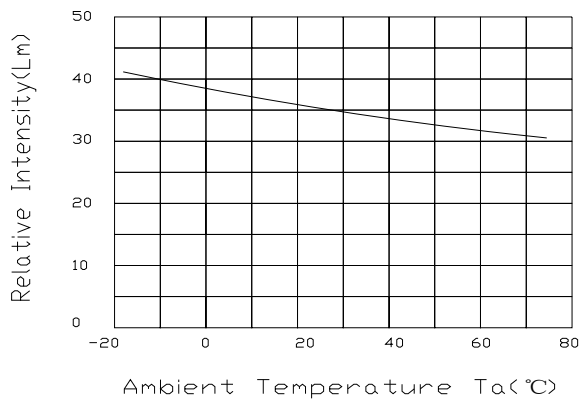
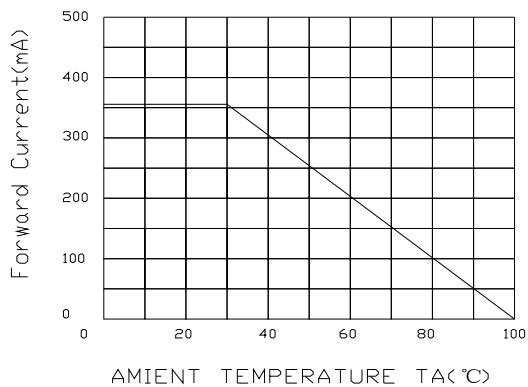
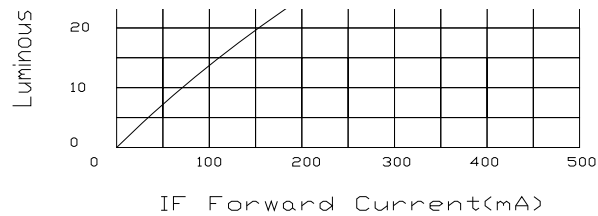
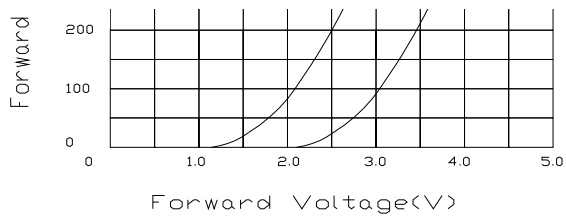
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## SPECIFICATION FOR APPROVAL

### HIGH POWER LED Typical Electro-Optical Characteristics Curves





- ① Blue Lamp(InGaN)
- ② White Lamp(InGaN)
- ③ Pure Green Lamp(InGaN)
- ④ Yellow Green Lamp(AlInGaP)
- ⑤ Red Lamp(AlInGaP)
- ⑥ Infrared Lamp(850nm)

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