

FEATURES

Conventional LED design : Simple to use

High Flux and Low Cost : More competitive advantages in the LED industry

Special body frame : Excellent transiting heat from LED chip operating under 150mA.

ADVANTAGES

Operating Current : 150mA .

Custom Design Light Sourcing Module for 0.6W.....

Excellent Heat Dissipation.

TYPICAL APPLICATIONS

Reading Light / Flashlight / Track Lighting

Under Shelf / Task Lighting

Emergency Lighting / Traffic Signals

Bollards / Security / Garden Lighting

Full Color Sign Boards



ABSOLUTE MAXIMUM RATINGS Tj=25°C

| Parameter | EP2032-150B1 | Units |
|-----------------------------|--------------|-------|
| DC Forward Current | 150 | mA |
| Pulsed Forward Current | 500 | mA |
| Power Dissipation | 520 | mW |
| Dark Current (VR=5V) | 100 | uA |
| Operating Temperature Range | -20 to 80 | °C |
| Storage Temperature Range | -35 to 85 | °C |
| Soldering Temperature | 245 | °C |
| Thermal Resistance Rθ(°C/W) | 85 | °C/W |
| LED Junction Temperature | 110 | °C |

Operating conditions:

1.Amber operating condition under f=0.5 ~ 2 Hz and 1/2 duty factor .

2. 520mw(White) : 6 pins of E-Power LED required soldering on PCB.

(PCB : 24.5 mm *24.5 mm , 1.6 t / two layers / 2.0 oz .)

3.Convective IR Reflow SolderingConvective IR Reflow Soldering.

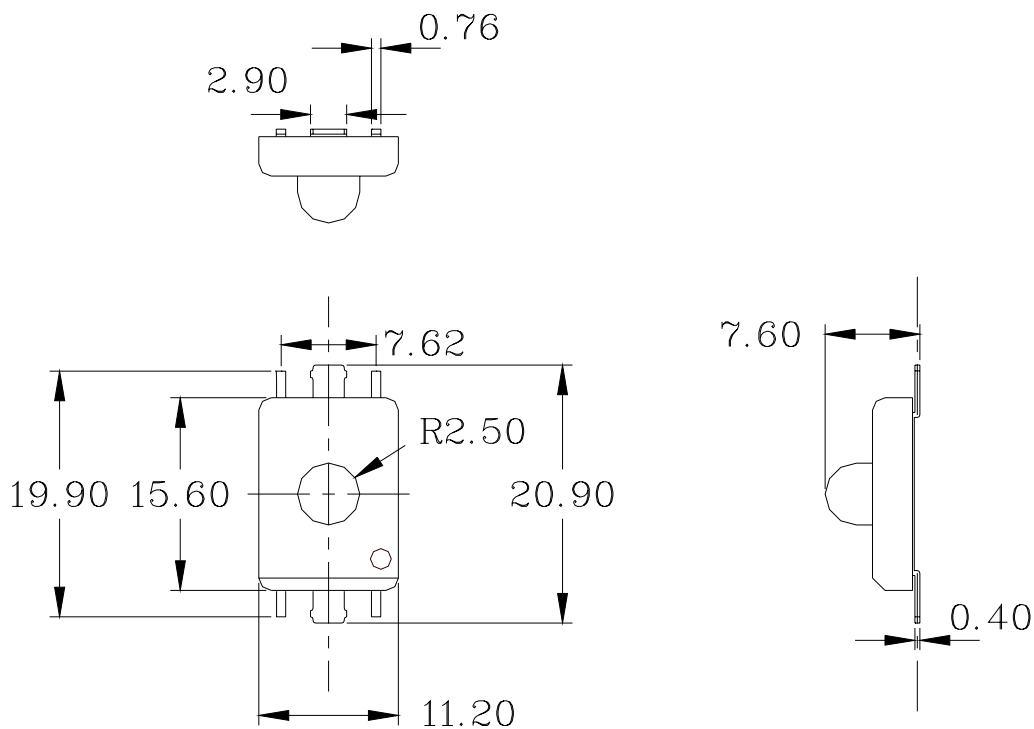
ELECTRICAL CHARACTERISTICS

Tj=25°C IF=150mA

| Device Type | Forward Voltage VF (Volts) | | | Dark Current VR=5V IR=(uA) | | Intensity Iv (cd) | | Total Flux Φv (lm) | Wavelength λD (nm) | Viewing Angle 2θ1/2 (Degrees) |
|--------------|-------------------------------|------|------|----------------------------------|------|-------------------------|------|--------------------------|--------------------------|-------------------------------------|
| | Min. | Typ. | Max. | Typ. | Max. | Min. | Typ. | Typ. | Typ. | Typ. |
| EP2032-150B1 | 3.0 | 3.4 | 4.0 | 10 | 100 | 9 | 15 | 2 | 470 | 10° |

This specification is subject to change without notice.

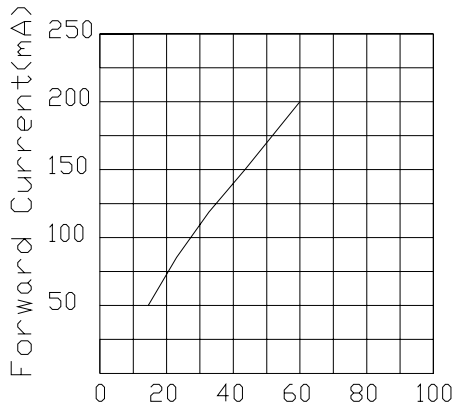
OUTLINE DRAWINGS



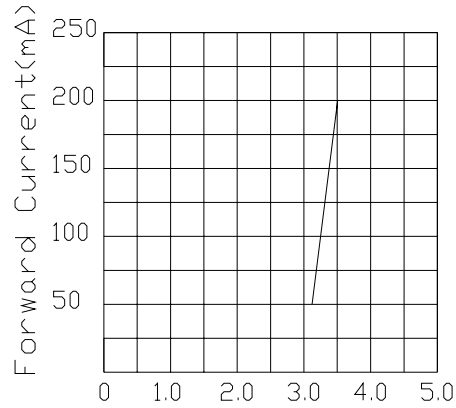
NOTE

1. All dimensions are in millimeters.
2. Tolerance is 0.25mm unless otherwise specified.
3. This specification is subject to change without notice.

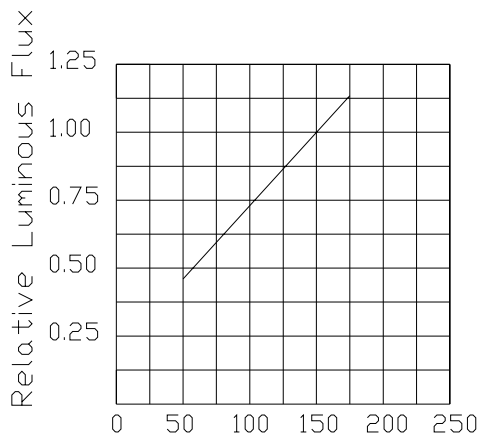
CHARACTERISTICS CURVE



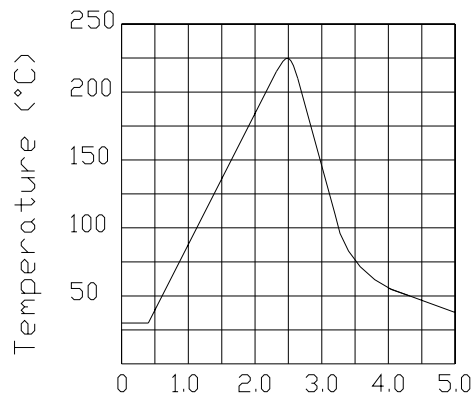
Junction Temperature (°C)
BLUE



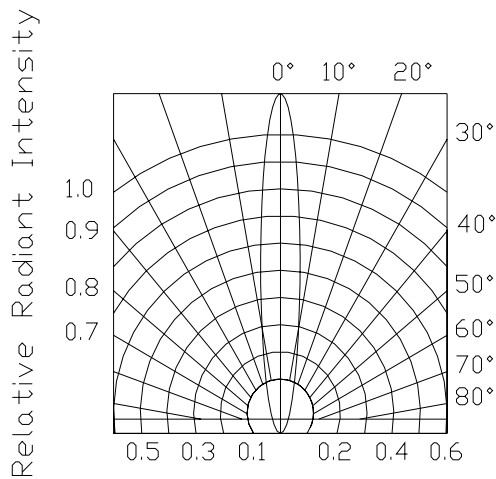
Forward Voltage VF (V)
BLUE



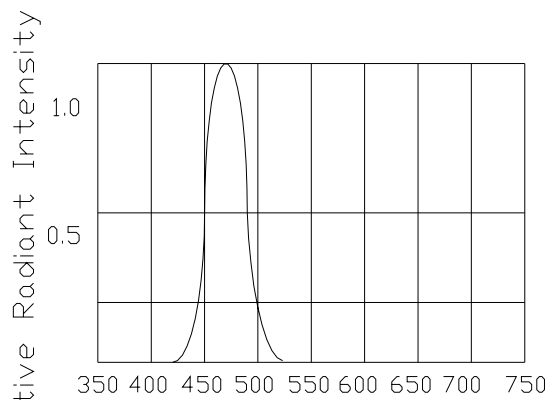
Forward Current (mA)
BLUE



TIME (min)
Soldering Temperature

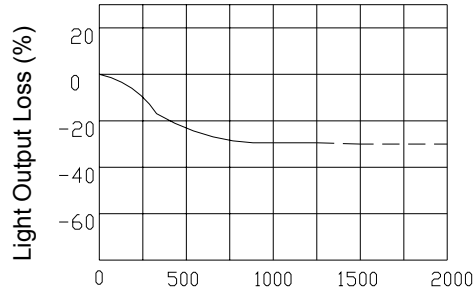


VIEW ANGLE
EP2032-150XX



Wavelength (nm)
Spectral Distribution
BLUE

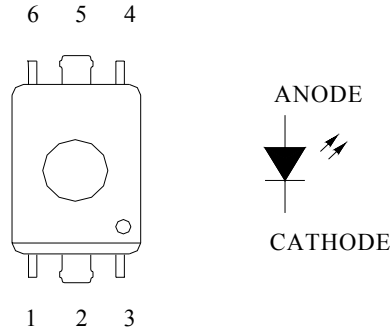
Operation Life



Operation Hours
BLUE , CYAN , GREEN , WHITE

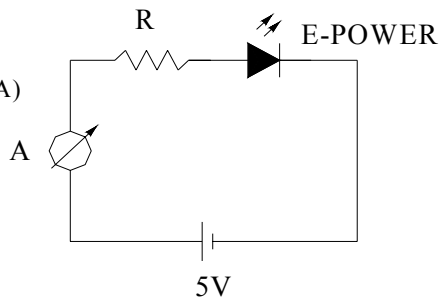
PIN CONNECTION

| COLOR | R | G | B | C | A |
|---------|--------|---|---|---|--------|
| ANODE | 6 | 6 | 6 | 6 | 6 |
| CATHODE | 2 5 | 3 | 3 | 3 | 2 5 |



TEST CIRCUIT

| COLOR | Vf(min) | R(100mA) | R(150mA) |
|-------|---------|----------|----------|
| B | 3.5V | 15 Ω | 10 Ω |



PART NO. SYSTEM OF E-Power LED

EP 2 03 2-150 B1

1---2-3-4-5-----6-----7

1.E -Power LED

2.YEAR 2002

3.PACKAGE TYPE:01=10mm LENS;03=5mm LENS;04=11 mm LENS

4.VIEWING ANGLE:2*5=10°

5.CURRENT:150mA

6.λD: B1=470nm(BULE)