EP2032-150R1

Ver A/0

Enhanced Power LED Revolutionary Light Source Module

e-mail:e-power@para.com.tw http://www.para.com.tw

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 0.4W‧‧‧‧.
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	EP2032-150R1	Units
DC Forward Current	150	mA
Pulsed Forward Current	500	mA
Power Dissipation	400	mW
Dark Current (V_R=5V)	100	uA
Operating Temperature Range	-20 to 80	°C
Storage Temperature Range	-35 to 85	°C
Soldering Temperature	245	°C
Thermal Resistance Rθ (℃/W)	85	℃/W
LED Junction Temperature	110	℃

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 Refllow SolderingConvective IR Reflow Soldering.

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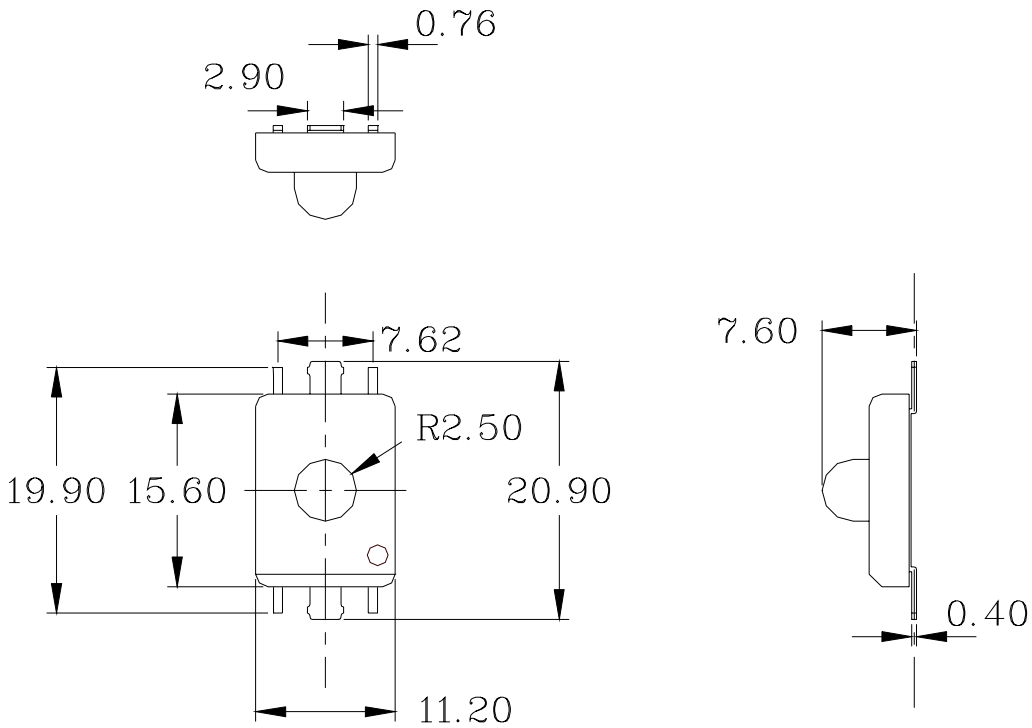
ELECTRICAL CHARACTERISTICS

Tj=25℃ 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.
EP2032-150R1	2.0	2.4	2.8	10	100	18	30	3	620	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.

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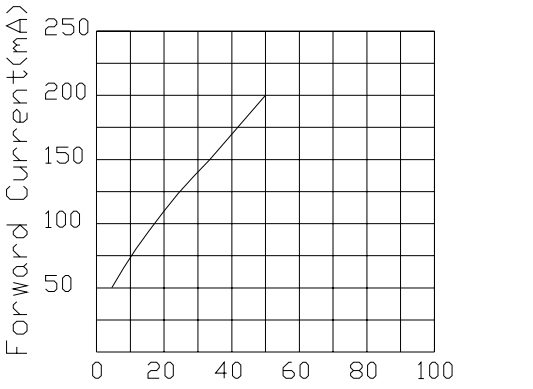
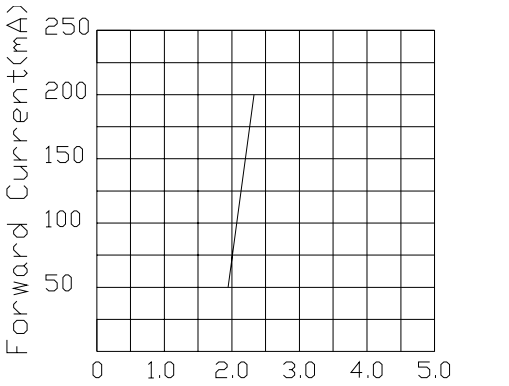
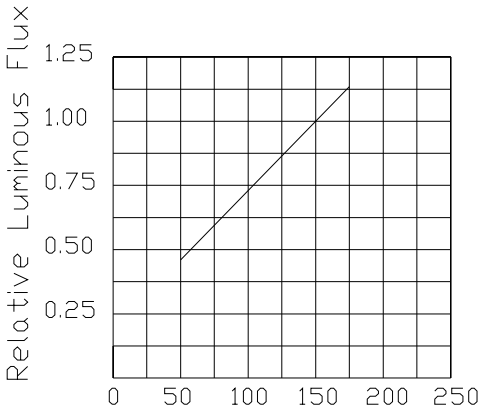
CHARACTERISTICS CURVE



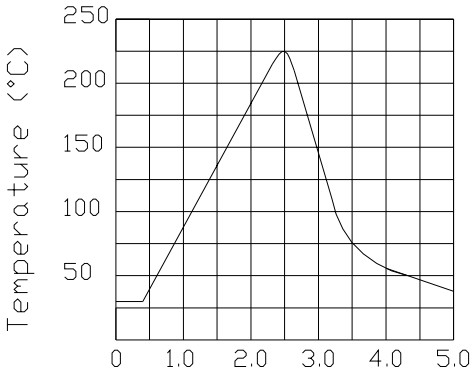
RED



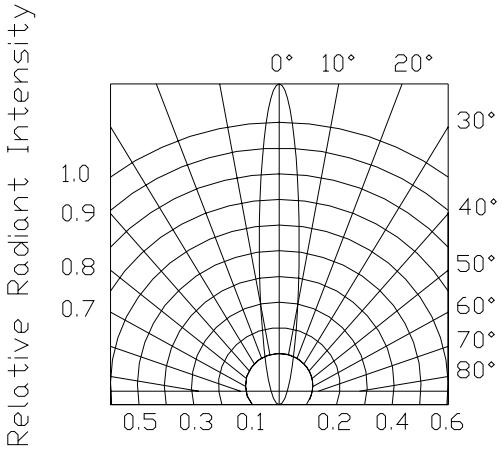
RED



RED

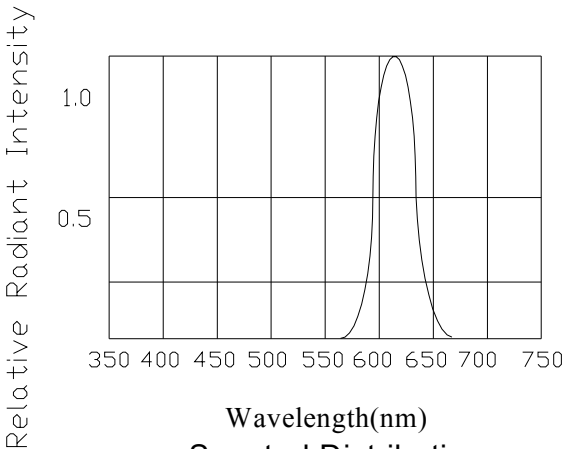


Soldering Temperature



VIEW ANGLE

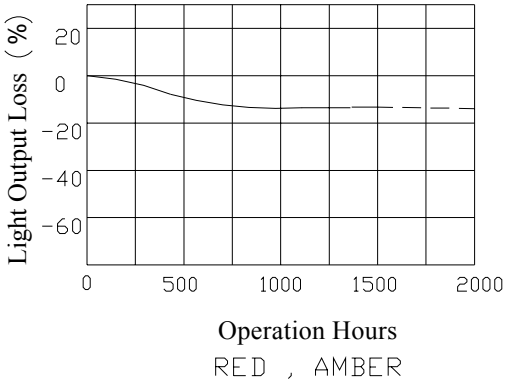
EP2032-150XX



Spectral Distribution

RED

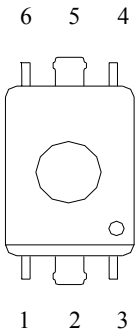
Operation Life

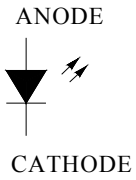


RED , AMBER

PIN CONNECTION

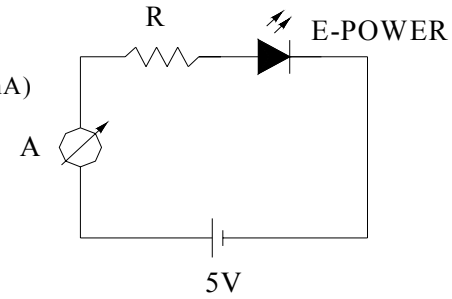
COLOR	R	G	B	C	A
ANODE	6	6	6	6	6
CATHODE	2 5	3	3	3	2 5





TEST CIRCUIT

COLOR	Vf (min)	R(100mA)	R(150mA)
R	2.0V	30Ω	20 Ω



PART NO. SYSTEM OF E–Power LED

EP 2 03 2-150 R1

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: R1=620nm (Red)