ENHANCED POWER LED Verβ

P2/6

Enhanced Power LED - Revolutionary Light Source Module

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.

ADVANTACES

Operating Current : 150mA .

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

Excellent Heat Dissipation.

TYPICAL APPLICATIONS

Reading Light / Flashlights / Mini Accent / Track Lighting.

Cove / Under Shelf / Task Lighting.

Orientation / Emergency lights / Traffic Signals.

Bollards / Security / Patio or Garden Lighting..

ABSOLUTE MAXIMUM RATINGS Tj = 25℃

Parameter	EP20XX-150XX	Units
DC Forward Current	150	mA
Pulsed Forward Current	500	mA
Power Dissipation	520	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 : 25.4 mm * 25.4 mm , 1.6 t / two layers / 2.0 oz .)

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ELECTRICAL CHARACTERISTICS

Tj=25℃ IF=150mA

Device Type	Forward Voltage VF (Volts) @ IF=150mA			Reverse Breakdown VR(Volts) @ IR=10uA		Intensity Iv	Total Flux Φv (150mA)	Wavelength λp	△λ 1/2	Viewing Angle 2θ 1/2 (Degrees)
Unit	Min.	Typ.	Max	Min.	Typ.	cd	Typ(lm)	Typ.(nm)	nm	Typ.
EP2012-150R1						35				10°
EP2032-150R1						30				10°
EP2034-150R1	2.0	2.4	2.8	5	10	24	3	620 Red Orange	20	20°
EP2036-150R1						15				30°
EP204K-150R1						3				100°
EP2012-150A1						35				10°
EP2032-150A1						30				10°
EP2034-150A1	2.0	2.4	2.8	5	10	24	3	590 Amber	20	20°
EP2036-150A1						15				30°
EP204K-150A1						3				100°
EP2012-150B1						20				10°
EP2032-150B1						15				10°
EP2034-150B1	3.0	3.4	4.0	5		7	1.5	470 Blue	20	20°
EP2036-150B1						3.5				30°
EP204K-150B1						1.5				100°
EP2012-150C1						20				10°
EP2032-150C1						15				10°
EP2034-150C1	3.0	3.4	4.0	5		7	1.5	505 Cyan	25	20°
EP2036-150C1						3.5				30°
EP204K-150C1						1.5				100°
EP2012-150G1						30				10°
EP2032-150G1						25				10°
EP2034-150G1	3.0	3.4	4.0	5		15	2	525 Green	30	20°
EP2036-150G1						7				30°
EP204K-150G1						2				100°

This specification is subject to change without notice.

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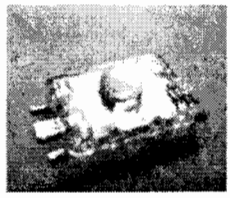
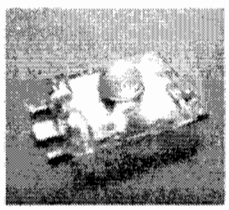
OUTLINE DRAWINGS

EP2012-150XX

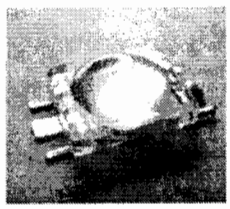
EP2036-150XX



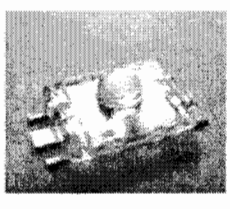
EP2032-150XX



EP204K-150XX



EP2034-150XX



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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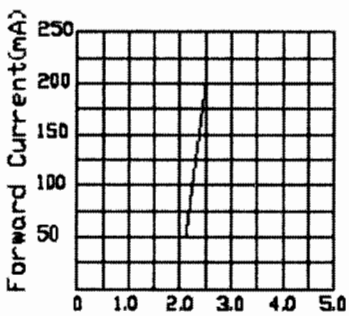
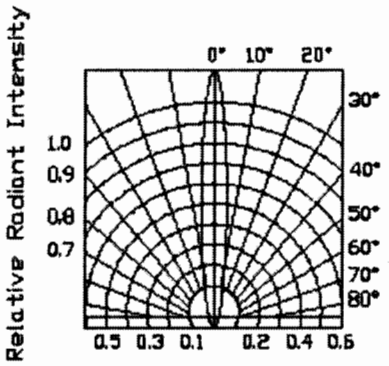
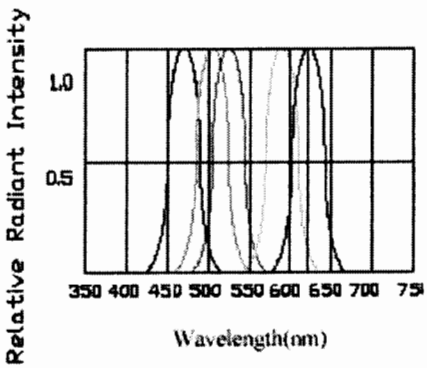
CHARACTERISTICS CURVE



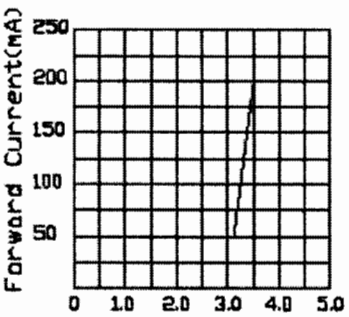
Forward Voltage VF(V)
RED , AMBER



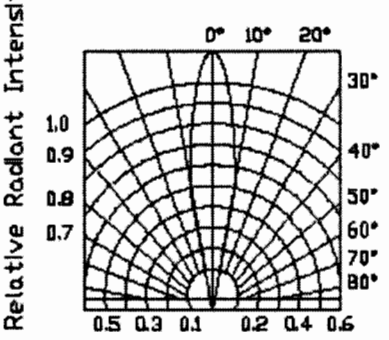
VIEW ANGLE
EP2012-150XX
EP2032-150XX



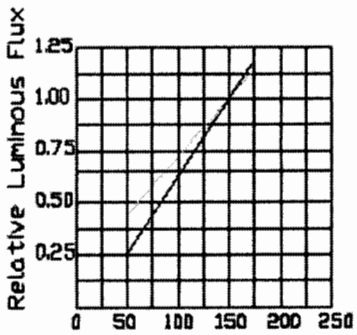
Spectral Distributior
BLUE , CYAN , GREEN , AMBE



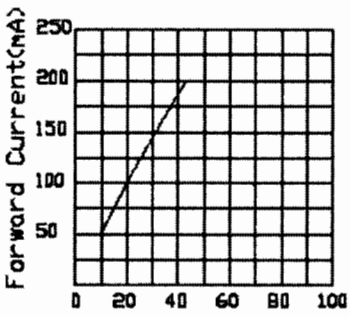
Forward Voltage VF(V)
BLUE , CYAN , GREEN



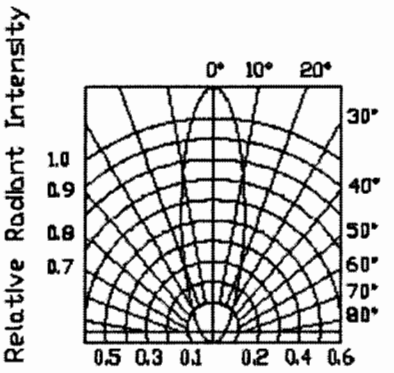
VIEW ANGLE
EP2034-150XX



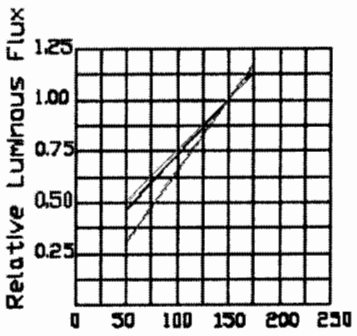
Forward Current(mA)
RED , AMBER



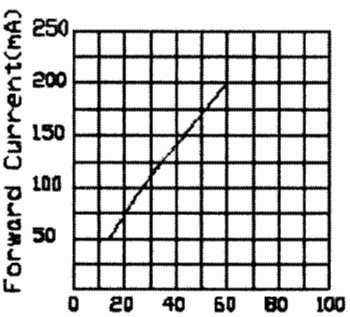
Junction Temperature (°C)
RED , AMBER



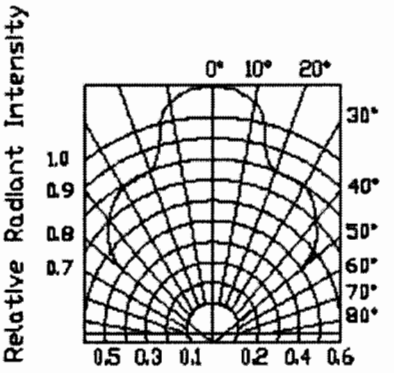
VIEW ANGLE
EP2036-150XX



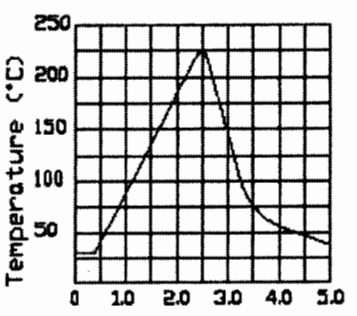
Forward Current(mA)
BLUE , CYAN , GREEN



Junction Temperature (°C)
BLUE , CYAN , GREEN



VIEW ANGLE
EP204K-150XX



TIME(min)
Soldering Temperature

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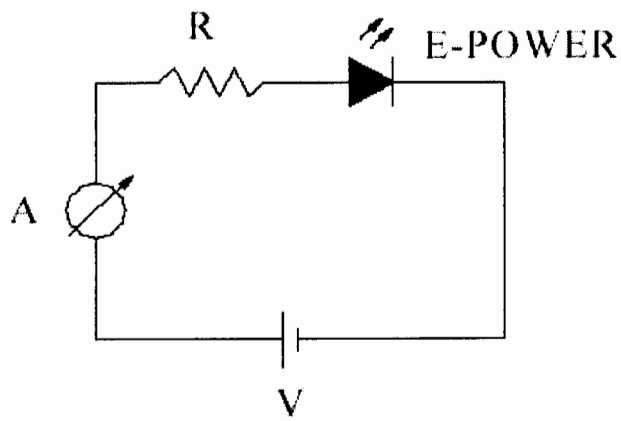
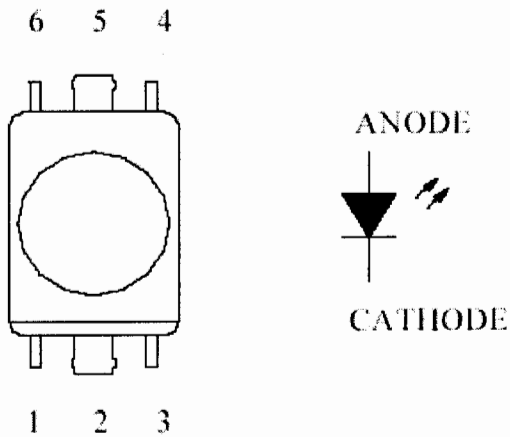
TEST CIRCUIT

COLOR	Vf(min)	R(100mA)	R(150mA)
R	2V	30	20
A	2V	30	20
B	3.5V	15	10
C	3.5V	15	10
G	3.5V	15	10



PIN CONNECTION

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



NOTICE:

PACKAGE TYPE： 01 =10mm LENS；03=5mm LENS； 04=11 mm LENS
VIEWING ANGLE ： 2×5=10 °
CURRENT：150mA
λp：A1=590nm(Amber)；G1=525nm(Green)；R1=620nm(Red)；
C1=505nm(Cyan)；B1=470nm(Blue)