FEATURES

Conventional LED design : Simple to use
High power and Low Cost : More competitive advantages in the LED industry
Special body frame: Excellent transiting heat from LED chip operating under 350mA.

ADVANTAGES

Operating Current : 350mA .
Custom Design Light Sourcing Module for 0.5W/0.55W····.
Excellent Heat Dissipation.

TYPICAL APPLICATIONS

Free air transmission system/optoelectronic switch
Charge Coupled Device/Infrared applied system/smoke detector
Light source for remote control devices

ABSOLUTE MAXIMUM RATINGS Tj = 25℃

Parameter	EP20XX-350IRX	Units
DC Forward Current	350	mA
Pulsed Forward Current	1000	mA
Power Dissipation	500/550	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.IR1/IR4 Pluse width =0.1msec,duty cycle= 1 % .
2.500mw(IR1) : 6 pins of E-Power LED required soldering on PCB.
550mw(IR4) : (PCB：25.4 mm * 25.4 mm 1.6 t / two layers / 2.0 oz .)
3.Convective IR Refllow Soldering

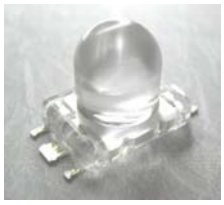
ELECTRICAL CHARACTERISTICS

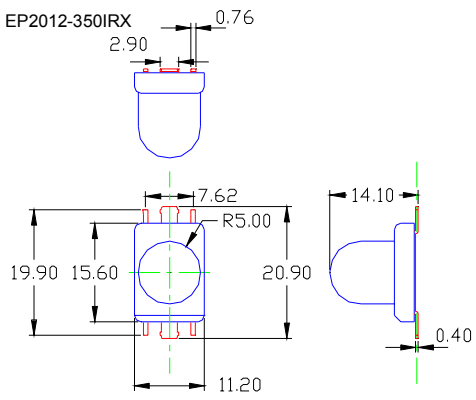
Tj=25℃ IF=350mA

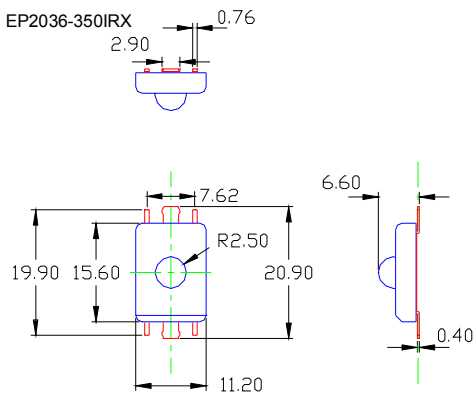
Device Type	Forward Voltage V_F (Volts)	Dark Current V_R=5V I_R=(uA)	Radiant Intensity Ie (mW/sr)	Radiant Power Φe (mW)	Peak Wavelength λ_P (nm)	△λ1/2 (nm)	Viewing Angle 2θ1/2 (Degrees)
Unit	Min. Typ. Max	Max	Min. Typ.	Typ	Typ.	Typ.	Typ.
EP2012-350IR1			240 340				10°
EP2036-350IR1	- 1.4 . 1.6	10	150 200	60	940	50	30°
EP204K-350IR1			30 40				100°
EP2012-350IR4			720 850				10°
EP2036-350IR4	- 1.6 1.9	10	290 350	100	850	50	30°
EP204K-350IR4			85 100				100°

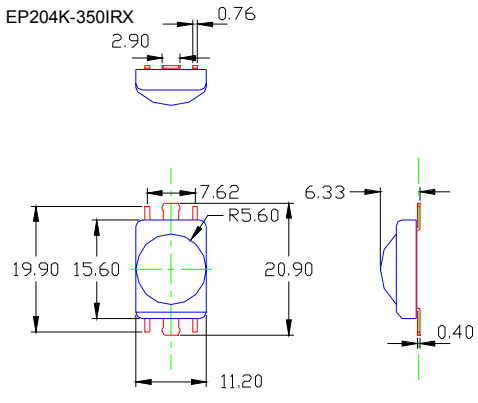
This specification is subject to change without notice.

OUTLINE DRAWINGS









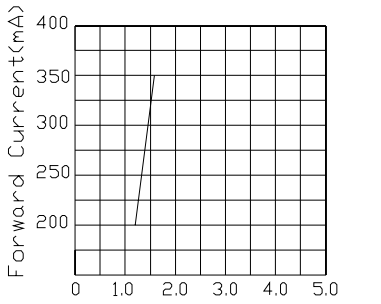
NOTE

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

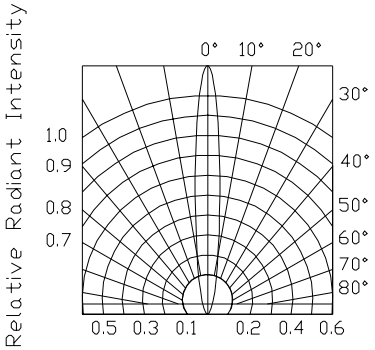
e-mail:e-power@para.com.twhttp://www.para.com.tw

CHARACTERISTICS CURVE

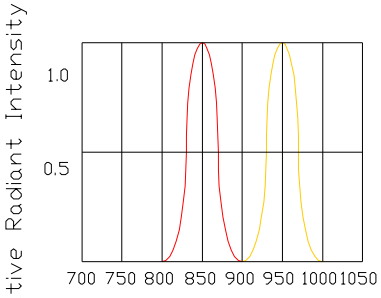
Ta=25℃



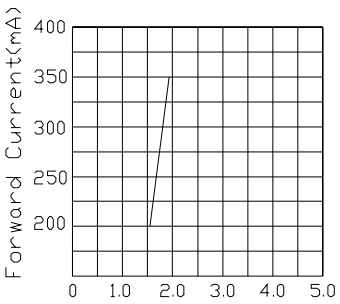
Forward Voltage VF(V)
IR1



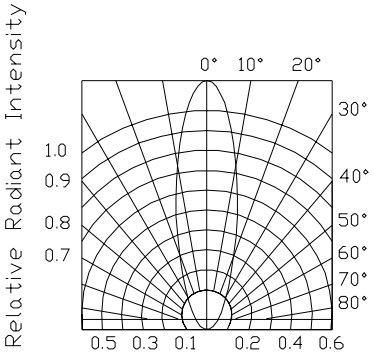
VIEW ANGLE
EP2012-350IRX



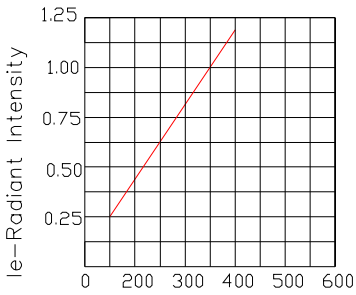
Spectral Distribution
IR4 , IR1



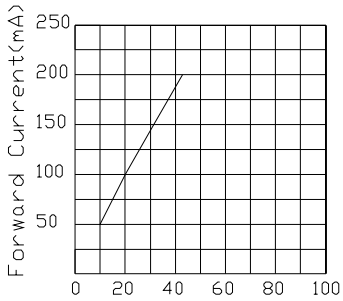
Forward Voltage VF(V)
IR4



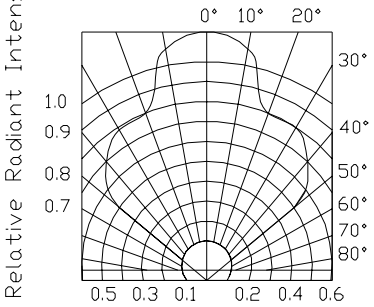
VIEW ANGLE
EP2036-350IRX



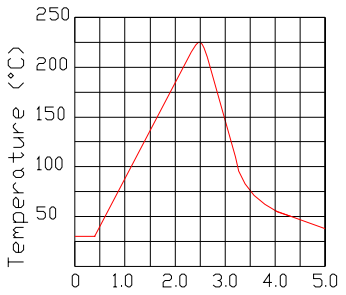
IR1,IR4



Junction Temperature (°C)
IR1,IR4

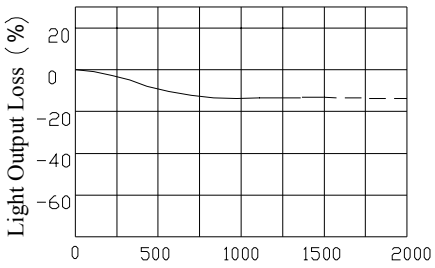


VIEW ANGLE
EP204K-350IRX



Soldering Temperature

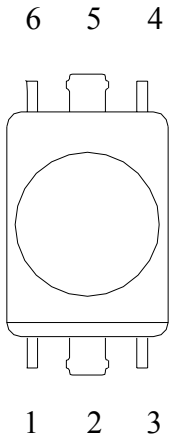
Operation Life

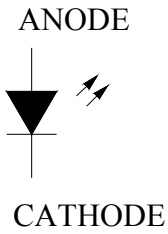


IR1,IR4

PIN CONNECTION

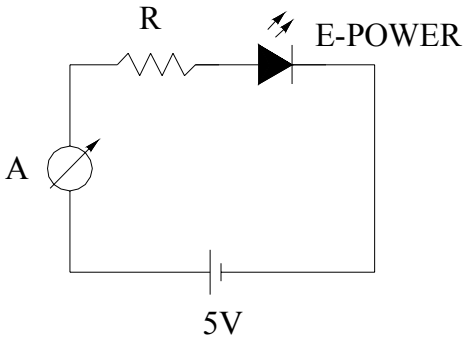
COLOR	IR1	IR4
ANODE	6	6
CATHODE	2	2
	5	5





TEST CIRCUIT

COLOR	Vf (min)	R(350mA)
IR1	1.2V	10.9
IR4	1.4V	10.3



PART NO. SYSTEM OF E–Power LED

EP 2 01 2-350 IR1

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

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:350mA

6. (p: IR1=940nm;IR4=850nm

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