



THE DATASHEET OF ESS-3030IRC





Jiangsu Everstar Electronics Co., Ltd.
Address: No.111 Tianmu Rd, Tianmuhu Town, Liyang City, Jiangsu Province, China
TEL: +86-519-87557772 FAX: +86-519-87557773
Http: www.everstarelect.com

DATA SHEET

ESL NO.. :ESS-3030IRC

CUSNO.. :

REV : A / 0

Producer: 蔡书艺

Auditor: _____

Approver: 陆志华

CUSTOMER'S APPROVAL : _____

DCC : _____



3.0×3.0×0.6mm SMD LED

ESS-3030IRC

REV:A0

FEATURES

- * 3030 SMD LED
- * High reliability
- * Low operating voltage
- * Low power consumption, long life
- * PB Free products (Compliant with EU' s RoHS)

CHIP MATERIALS:

- * Dice Material : GaAIAs
- * Light Color: Colourless
- * Lens Color: Water Clear

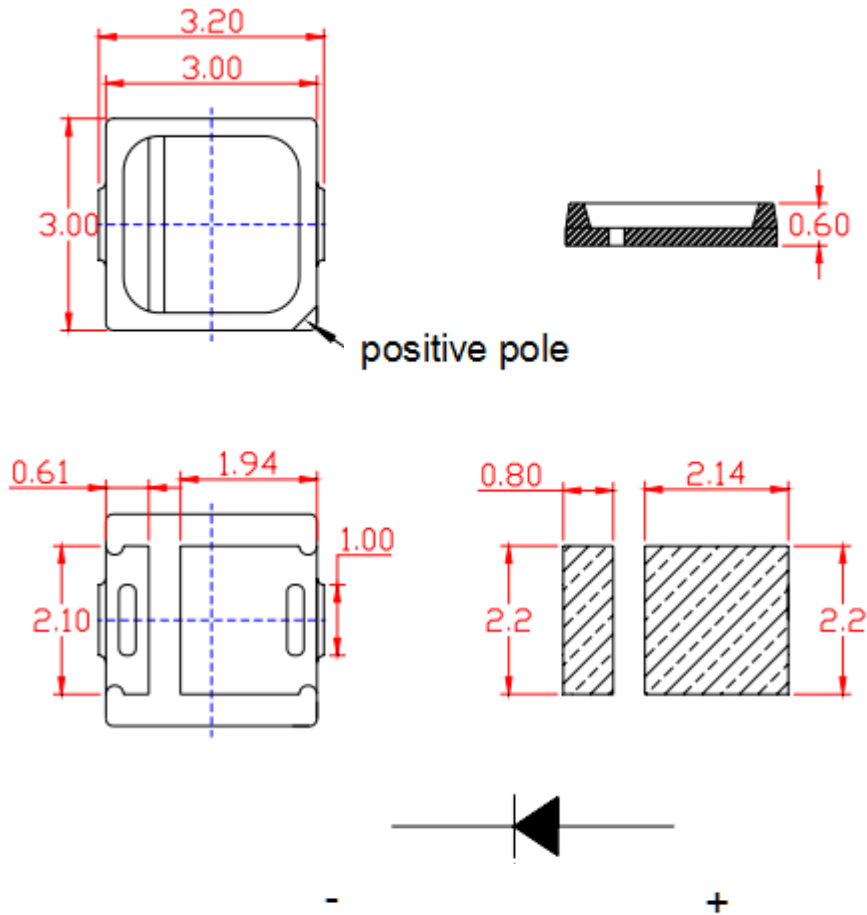


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※ Package Outline Dimension:



NOTES:

1. All dimensions are in millimeters (inches).
2. Tolerance is ± 0.10 mm unless otherwise specified.
3. Specifications are subject to change without notice.



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ABSOLUTE MAXIMUM RATING : (Ta = 25°C)

Symbol	Parameter	Rated	Unit
IFM	Forward Current	500	mA
IFPM	Pulse Forward Current	1	A
VR	Reverse Voltage	5	V
PM	Power Consumption	1	w
Top	Operating Temperature Range	-40~85	°C
Tstg	Storage Temperature Range	-40~100	°C

ELECTRO-OPTICAL CHARACTERISTICS : (Ta = 25° C)

SYMBOL	PARAMETER	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
VF	Forward Voltage	IF = 100mA	1.5		1.8	V
		IF = 200mA	1.8	2.0		
IR	Reverse Current	VR = 5V			10	μA
2θ1/2	Half Intensity Angle	IF = 100mA		120		deg
IE	Axial Radiand Intensity	IF = 100mA		40		mW/sr
		IF = 200mA		80		
λD	Dominant Wavelength	IF=200mA		850		nm

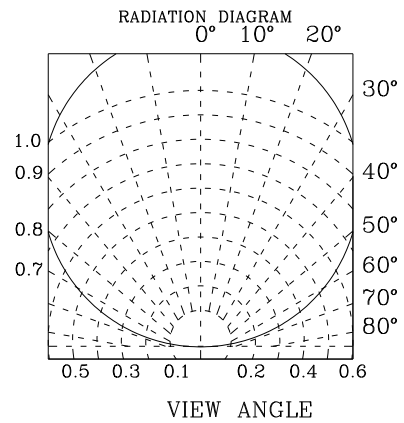
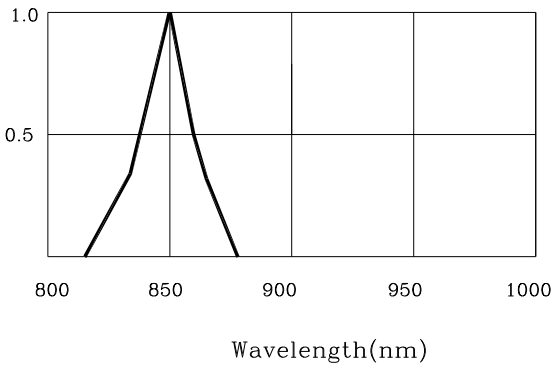
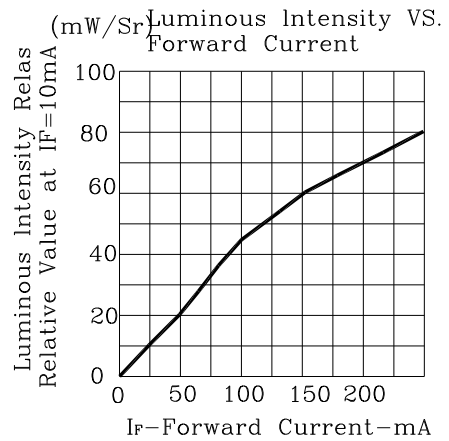
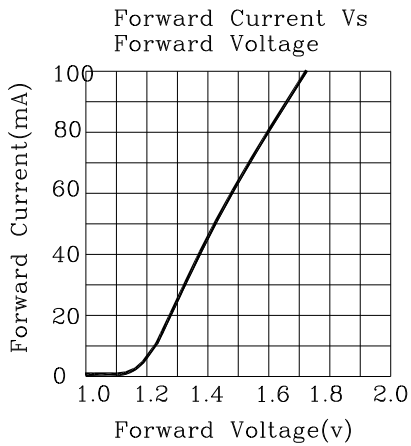


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※ Typical Electro-Optical Characteristics Curves



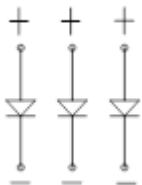


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※ Package Tape Specifications:



Dimensions are specified as follows:mm

Notes:

- 1.The packing only appropriate for GMDZ
- 2.Normal packing quantity: 1,000pcs/reel



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※ **Precautions for use :**

1. Customer must apply the current limiting resistor in the circuit so as to drive the LEDs within the rated current. Otherwise slight voltage shift maybe will cause big current change and burn out will happen.
2. Also, caution should be taken not to overload the LEDs with instantaneous high voltage at the turning ON and OFF of the circuit.
3. Storage:

3.1 Don' t open the moisture proof bag before ready to use the LEDs.

3.2 The LEDs should be kept at 30°C or less and 60%RH or less before opening the package. The max. storage period before opening the package is 1 year.

3.3 After opening the package, the LEDs should be kept at 30°C/35%RH or less, and it should be used within 7 days.

3.4 If the LEDs be kept over the conditions of 3.4, baking is required before mounting.

Baking condition as below: 60±5°C for 12 hrs.

4. Soldering condition:

4.1 Lead Solder:



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4.2 Lead Free Solder:

Note:

- 1.Reflow soldering should not be done more than two times.
2. Don' t put stress on the LEDs when soldering.
- 3.Don' t warp the circuit board before it have been returned to normal ambient conditions after soldering

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