



THE DATASHEET OF ESS-IRA4335A65-X4





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DATA SHEET

ESL NO.. :ESS-IRA4335A65-X4

CUSNO.. :

REV : A / 0

Producer:

Auditor: _____

Approver:

CUSTOMER'S APPROVAL : _____

DCC : _____



4.3×3.5×3.85mm SMD LED

ESS-IRA4335A65-X4

REV:A0

※ **Features:**

- 1.Package: 4.3×3.5×3.85mm (TOP Infrared Emitting LED)
- 2.Emitted Color: colourless
3. High reliability
4. Low Power Consumption

※ **Applications:**

- 1.Interactive Electronic whiteboard
- 2.Touch type all-in-one machine

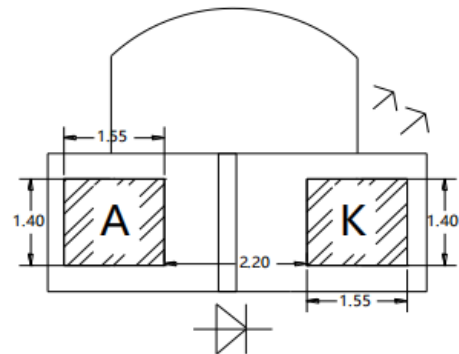
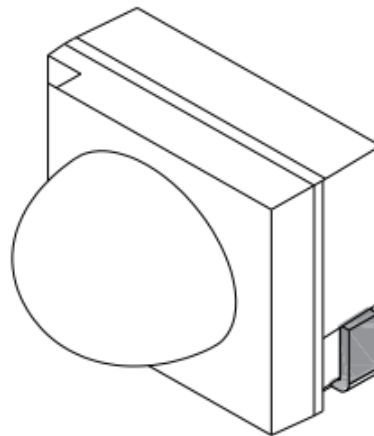
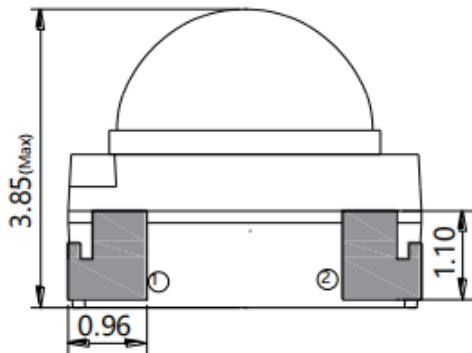
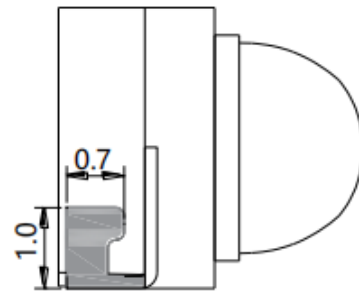
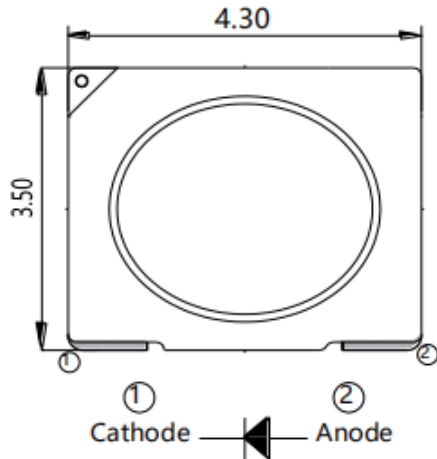


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※ Package Outline Dimension:



NOTES:

1. All dimensions are in millimeters (inches).
2. Tolerance is $\pm 0.10\text{mm}$ unless otherwise specified.
3. Specifications are subject to change without notice.



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※ Absolute Maximum Ratings(Ta=25°C)

Items	Symbol	Absolute maximum Rating	Unit
Power Dissipation	P _D	150	mW
Forward Current(DC)	I _F	100	mA
Peak Forward Current**	I _{FP}	1000	mA
Operation Temperature	T _{opr}	-40~ +85	°C
Storage Temperature	T _{stg}	-40 ~ +100	°C

※ Electrical-optical characteristics(Ta=25°C)

Items	Symbol	Condition	Min.	Typ.	Max.	Unit
Forward Voltage	V _F	I _F = 50mA	1.2		1.8	V
Reverse Current	I _R	V _R = 5V	---	---	10	μA
Axial Radiand Intensity	IE	I _F = 50mA	20	27		mW/sr
Half Intensity Angle	2θ _{1/2}	I _F = 50mA	---	65 25	---	Deg
Dominant Wavelength	λ _D	I _F = 50mA		940		nm



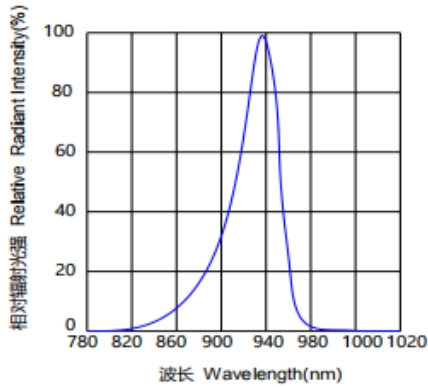
4.3×3.5×3.85mm SMD LED

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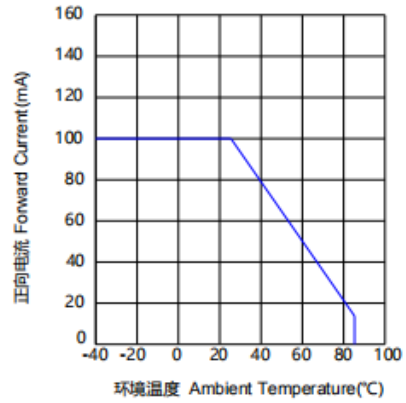
REV:A0

※ Typical Electro-Optical Characteristics Curves

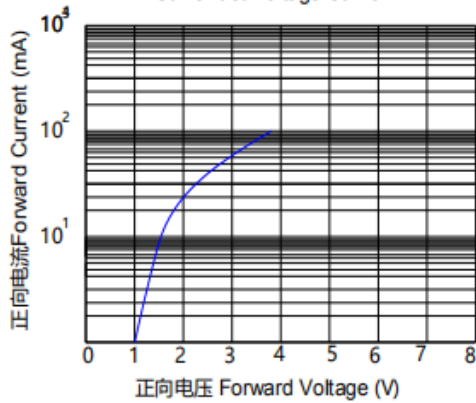
光谱分布特性曲线
Relative Spectral Distribution



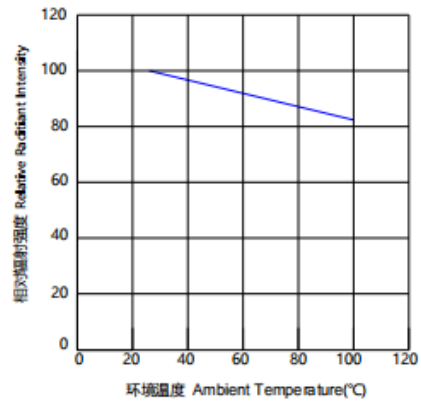
正向电流降额曲线
Forward Current Derating Curve



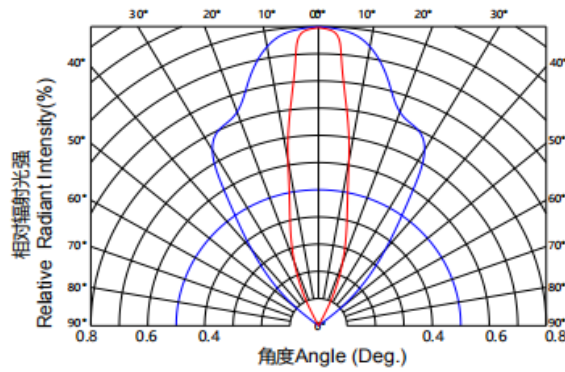
电流vs电压曲线图
Current & Voltage Curve



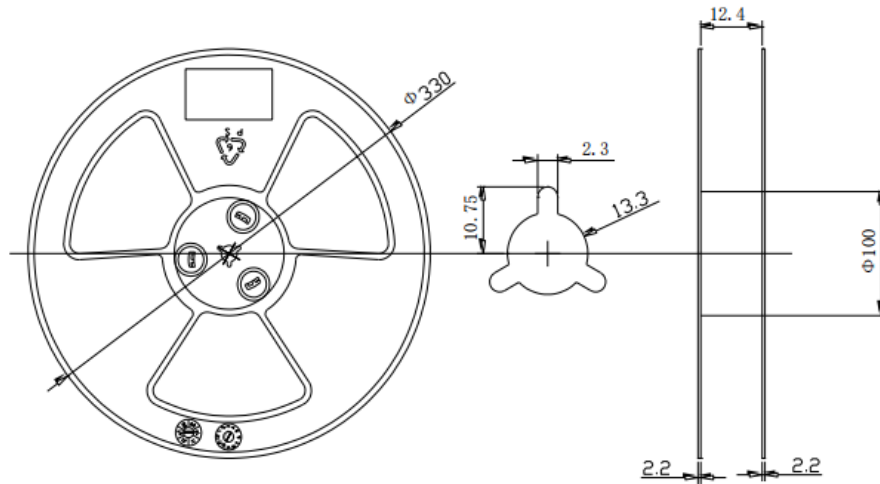
辐射强度 VS 环境温度曲线
Relative radiant intensity VS Ambient Temperature



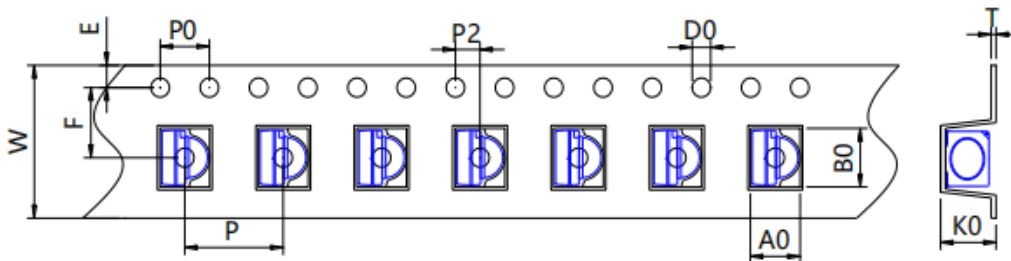
辐射光强分布特性曲线
Radiant Intensity Spatial Distribution



※ Package Tape Specifications:



Progressive direction 使用方向



Symbol	A0	B0	K0	P0	P	P2
SPEC	3.85±0.1	4.5±0.1	3.7±0.1	4.0±0.1	8.0±0.1	2.0±0.1
Symbol	W	T	E	F	D0	
SPEC	12.0±0.3	0.40±0.05	1.75±0.10	5.5±0.1	1.5±0.1	

Dimensions are specified as follows:mm

Notes:

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