



**THE DATASHEET OF
ESS-UAB050101S04-QL1**





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DATA SHEET

ESL NO.. : ESS-UAB050101S04-QL1

CUS NO. :

REV : A / 0

Producer: Eden

Auditor: _____

Approver: Jack

CUSTOMER'S APPROVAL : _____

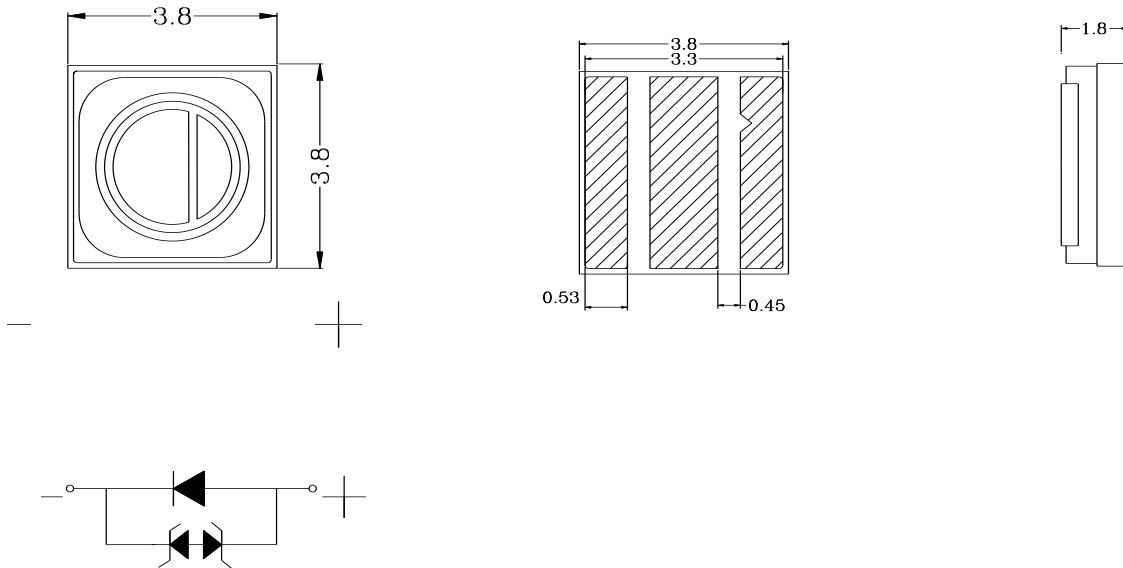
DCC : _____

3535 SMD LED

ESS-UAB050101S04-QL1

REV:A/0

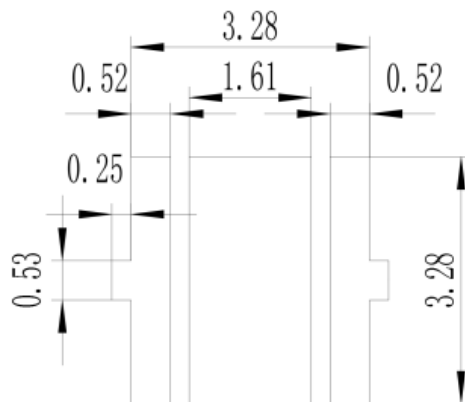
Package Outline Dimension:



Note:

1. All Dimensions are in millimeters.
2. Heat sink bottom need to use the solder paste welding

Recommended Solder Pad



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FEATURES

- * 3535 Ceramics SMD LED
- * Low operating voltage
- * PB Free products (Compliant with EU's RoHS)
- * High reliability
- * Silicone Packaging

Application

- * UV Curing
- * Counterfeit Detection
- * Printing

ABSOLUTE MAXIMUM RATING : (Ta = 25°C)

Symbol	Parameter	Rated	Unit
IF	Forward Current	350	mA
VR	Reverse Voltage	5	V
PM	Power Consumption	4.5	W
Top	Operating Temperature Range	- 40~100	° C
Tstg	Storage Temperature Range	- 40~85	° C

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

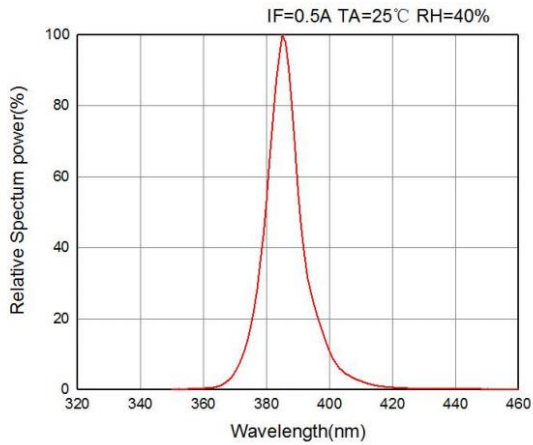
SYMBOL	PARAMETER	TEST CONDITION	MIN.	TYP	MAX	UNIT
VF	Forward Voltage	IF = 350mA	2.9		3.8	V
IF	Peak Forward Current	VF=3.8V	100		1200	mA
2 θ 1/2	Half Intensity Angle	IF = 350mA	----	130	----	deg
Φe	Radiant Flux	IF = 350mA		720		mW
		IF = 700mA		1430		mW
IR	Reverse Current	VR = 5V	----	----	5	μA
λp	Peak Wavelength	IF = 350mA	380		390	nm
ESD	Electro-Static discharge	IF = 350mA		4000		v

3535 SMD LED

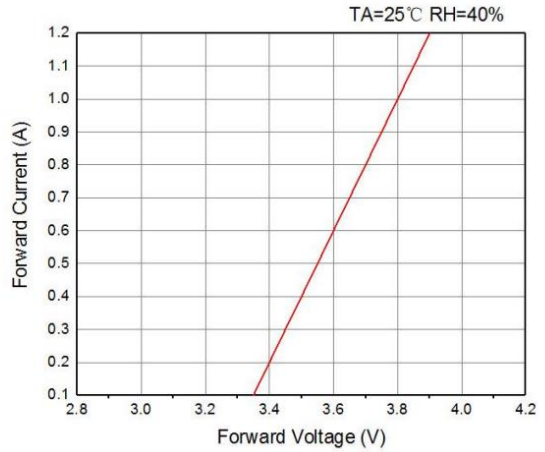
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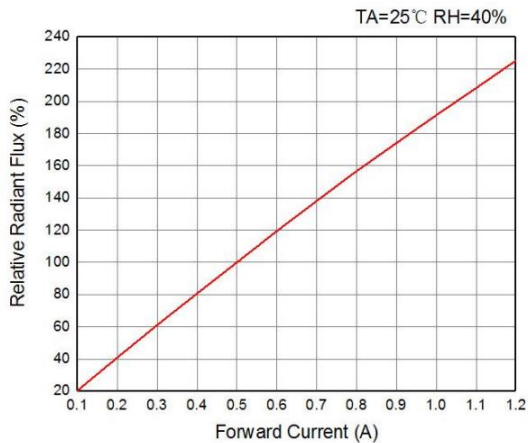
1. Relative Spectrum Power Distribution



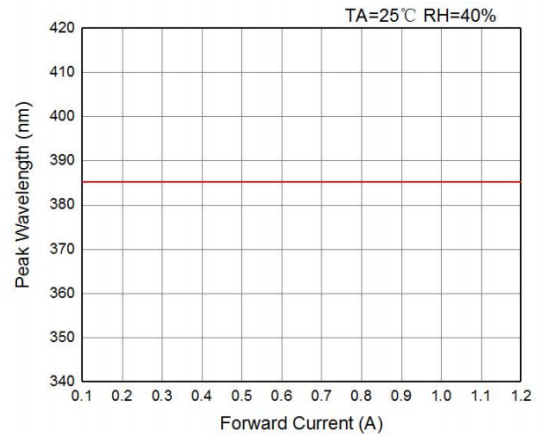
2. Forward Voltage vs Forward Current



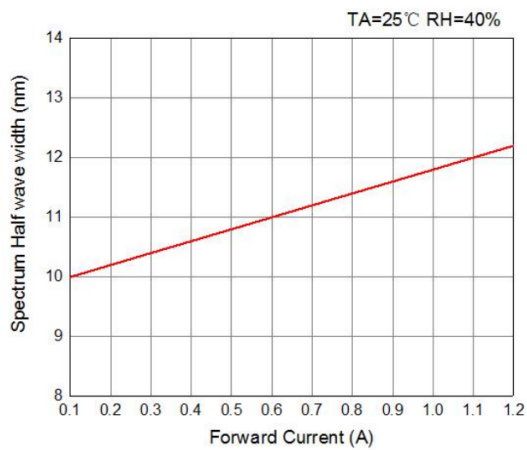
3. Relative Radiation Flux vs Forward Current



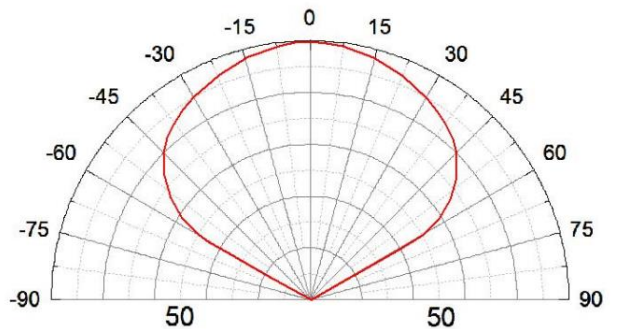
4. Peak Wavelength vs Forward Current



5. Spectrum Half-Wave Width vs Forward Current



6. Spatial Distribution Graph

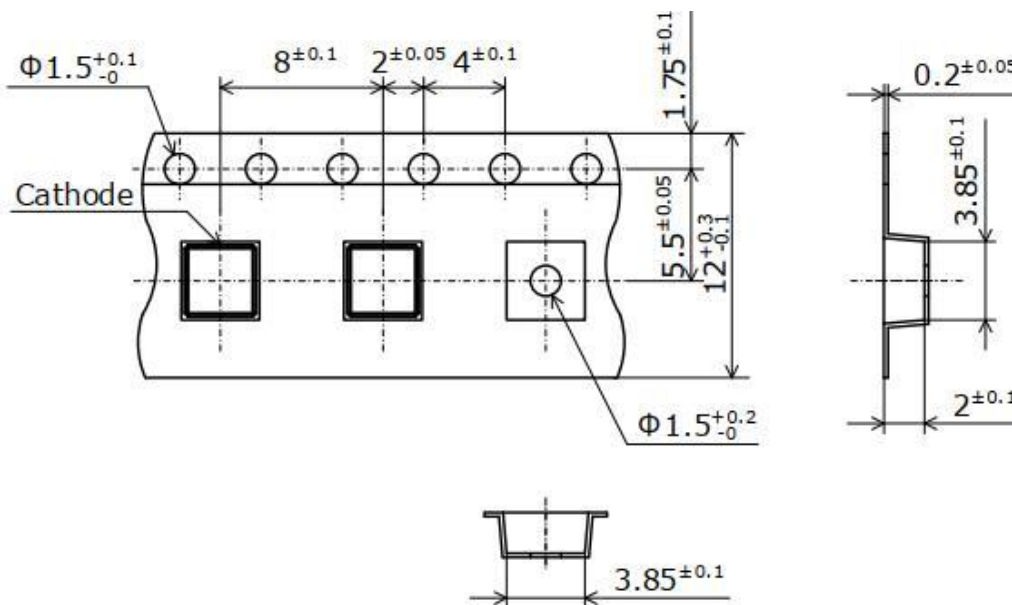
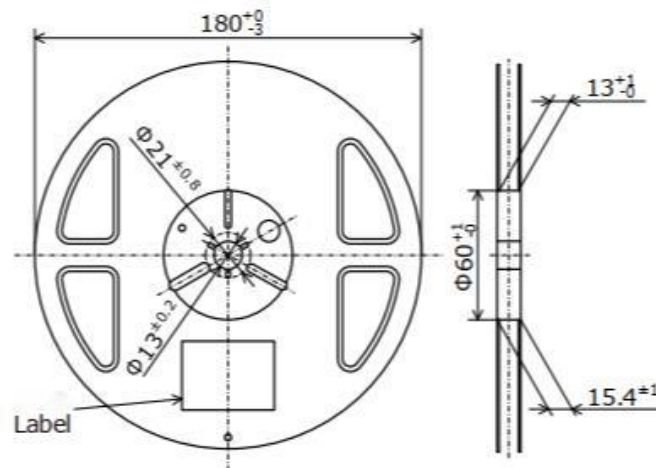


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※ Package Tape Specifications: (1000pcs/Reel)



3535 SMD LED

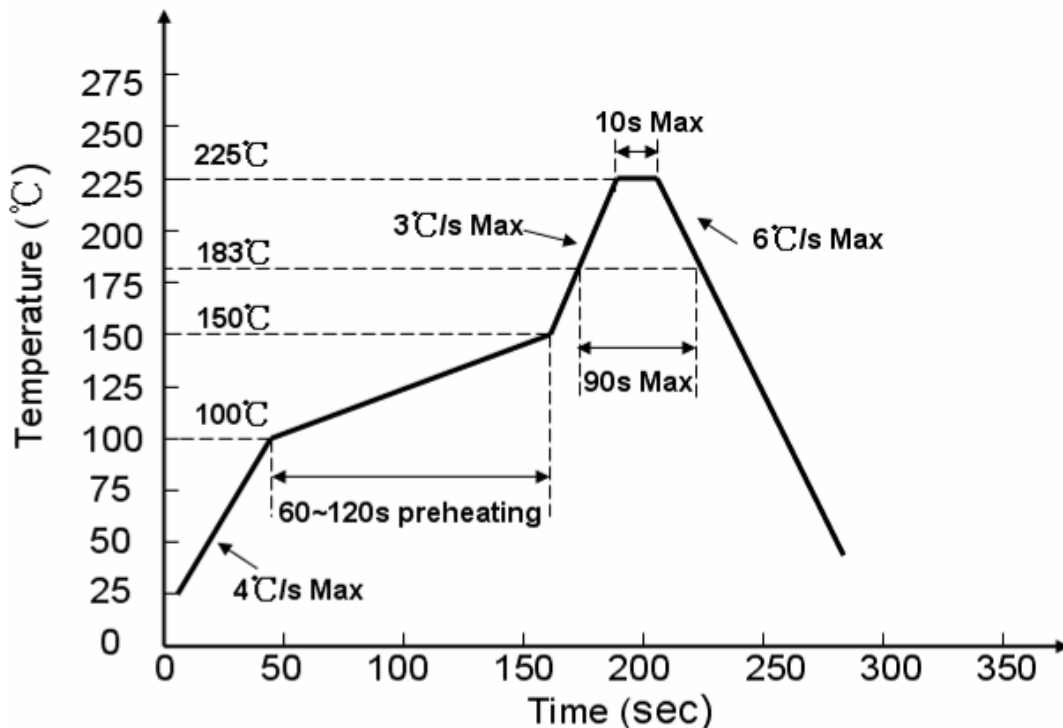
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※ Precautions for use :

- 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:
 - a) 3.1 Don't open the moisture proof bag before ready to use the LEDs.
 - b) 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.
 - c) 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.
 - d) 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:

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

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