



**THE DATASHEET OF
ESS-3433UBC**



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DATA SHEET

ESL NO.. : ESS-3433UBC

CUS NO. :

REV : A / 0

Producer: _____

Eden

Auditor: _____

Approver: _____

Jack

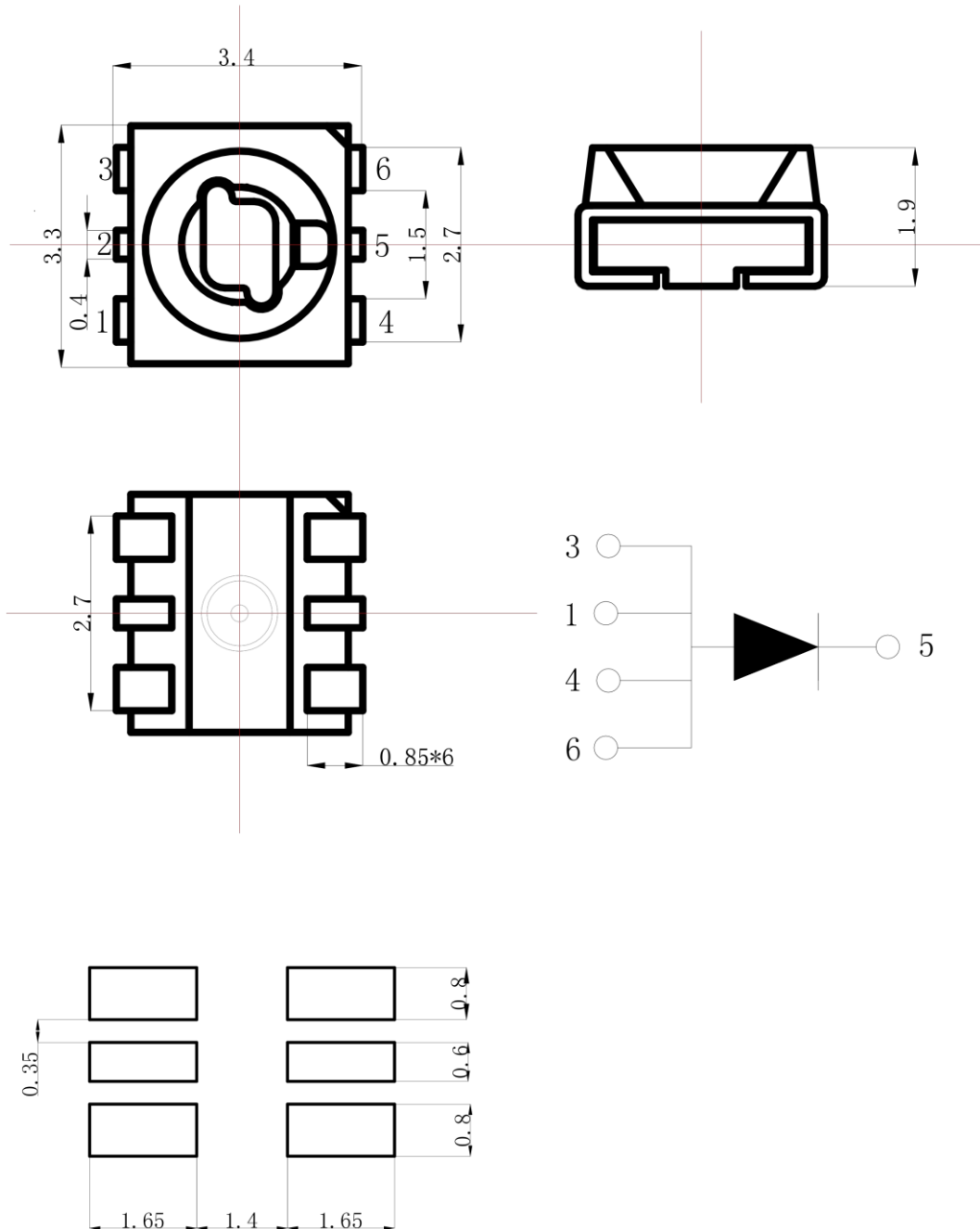
CUSTOMER'S APPROVAL : _____

DCC : _____

TOP SMD LED

ESS-3433UBC

REV:A/0



Note:

All Dimensions are in millimeters.

TOP SMD LED

ESS-3433UBC

REV:A /0

FEATURES

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

CHIP MATERIALS:

- * Dice Material :InGaN
- * Lens Color: Water Clear
- * Light Color: Blue

TOP SMD LED

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ABSOLUTE MAXIMUM RATING : (Ta = 25°C)

Symbol	DESCRIPTION	Rated	Unit
Topr	Operating Temperature Range	-30°C ~ +85°C	
Tstg	Storage Temperature Range	-40°C ~ +100°C	
VR	Reverse Voltage Per Chip	5	V
PD	Power Dissipation Per Chip	600	mW
IF	Average Forward Current Per Chip	150	mA
IFp	Peak Forward Current Per Chip	200	mA

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

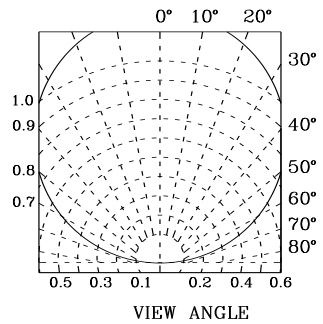
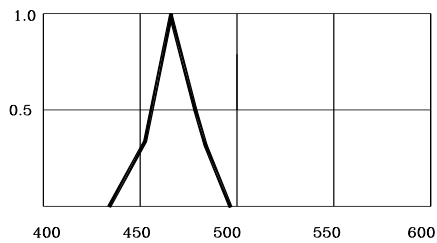
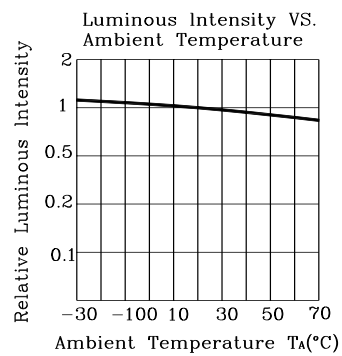
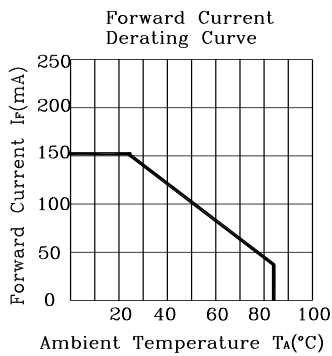
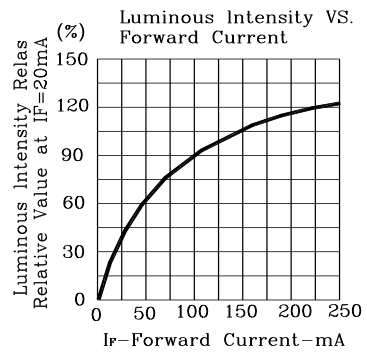
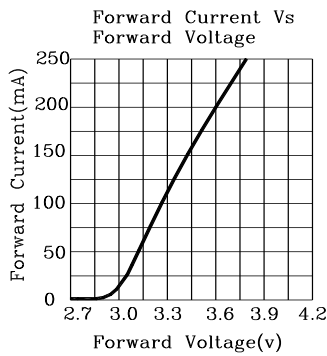
SYMBOL	PARAMETER	TEST CONDITION	MIN.	TYP	MAX	UNIT
VF	Forward Voltage	IF = 150mA	2.9		3.8	V
λ	Wavelength	IF = 150mA	460		470	nm
$2\theta_{1/2}$	Half Intensity Angle	IF = 150mA	----	120	----	deg
IV	Luminous Intensity	IF = 150mA	2000		4000	mcd
Φ	Luminous Flux	IF = 150mA	6		12	lm
IR	Reverse Current	VR = 10V	----	----	1	μ A

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Typical Electro-Optical Characteristics Curves



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voltage Bin List

Test Condition:150mA

Bin No.	VFL	VFH	UNIT
V1	2.9	3.2	V
V2	3.2	3.5	V
V3	3.5	3.8	V

Luminous Intensity

Test Condition:150mA

Bin No.	IVL	IVH	UNIT
L1	2000	2500	mcd
L2	2500	3000	mcd
L3	3000	3500	mcd
L4	3500	4000	mcd

Dominant Wavelength Combination Rank

Test Condition:150mA

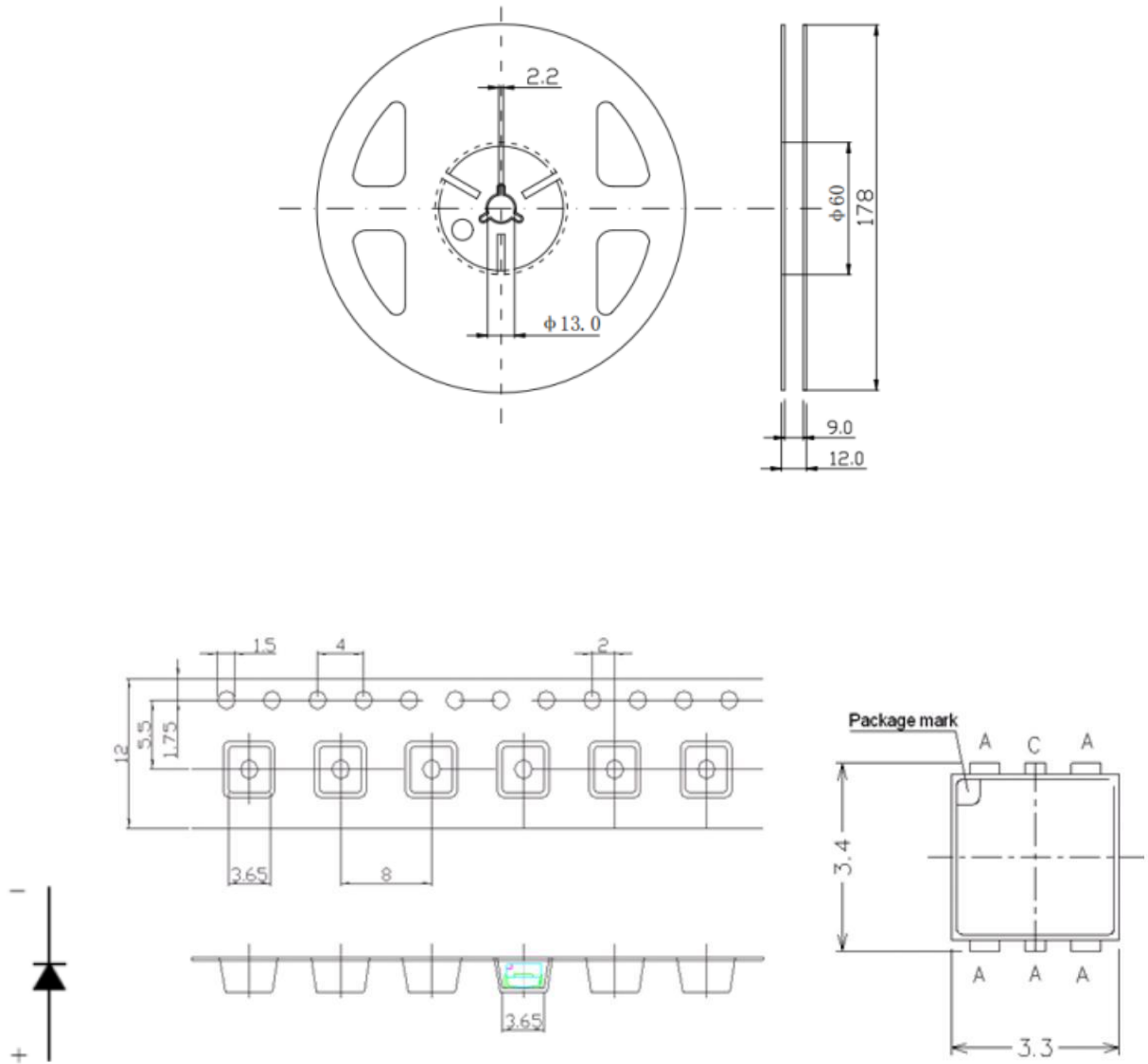
Bin No.	WDL	WDH	UNIT
W1	460	462.5	nm
W2	462.5	465	nm
W3	465	467.5	nm
W4	467.5	470	nm

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Package Tape Specifications: (1000 pcs/Reel)



TOP SMD LED

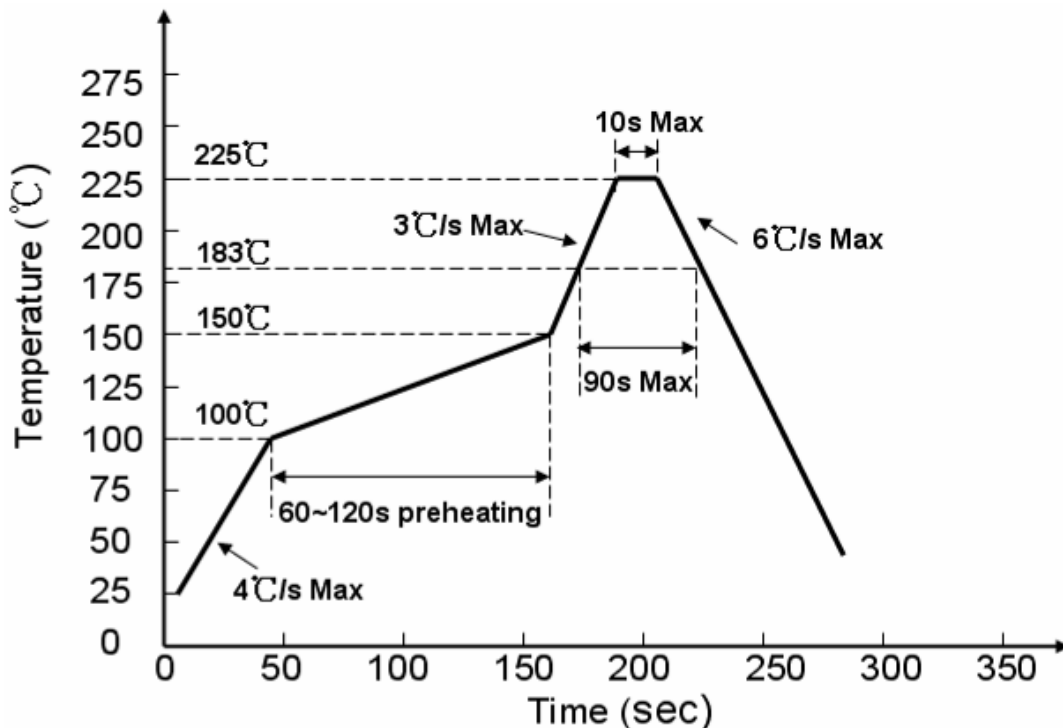
ESS-3433UBC

REV:A /0

※ 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 $30^{\circ}\text{C}/35\%\text{RH}$ 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: $60\pm 5^{\circ}\text{C}$ for 12 hrs.
- 4) Soldering condition:

4.1 Lead Solder:



	TOP SMD LED	
	ESS-3433UBC	REV:A /0

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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