



**THE DATASHEET OF
ESS-U533C1F69Z30A2**



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DATA SHEET

ESL NO.. : ESS-U533C1F69Z30A2

CUS NO. :

REV : A / 0

Producer: _____

Eden

Auditor: _____

Approver: _____

Jack

CUSTOMER'S APPROVAL : _____

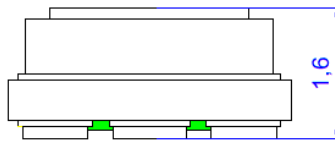
DCC : _____

UVC SMD LED

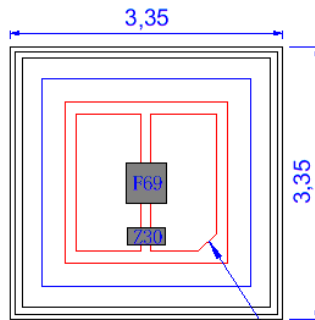
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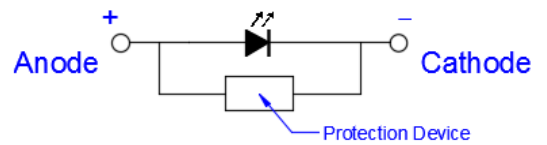
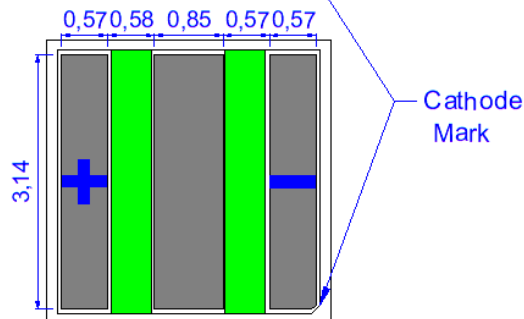
Side View



Top View



Bottom View



Note:

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



UVC SMD LED

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FEATURES

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

Application

- * Sterilization and disinfection
- * Water purification
- * Fluorescent spectroscopy

ABSOLUTE MAXIMUM RATING : (Ta = 25°C)

Symbol	Parameter	Rated	Unit
IFM	Forward Current	100	mA
VR	Reverse Voltage	5	V
Top	Operating Temperature Range	- 30~60	° C
Tstg	Storage Temperature Range	- 40~100	° C

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

SYMBOL	PARAMETER	TEST CONDITION	Rated	UNIT
λ_p	Peak Wavelength	IF = 100mA	260-270	nm
Φ_e [3]	Radiant Flux		10-18	mW
VF	Forward Voltage		5-7	v
2 θ 1/2	View Angle		120	deg
Rth	Thermal Resistance		≤ 20	°C/W

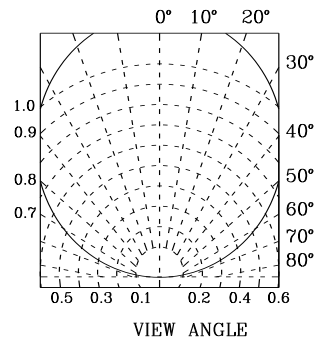
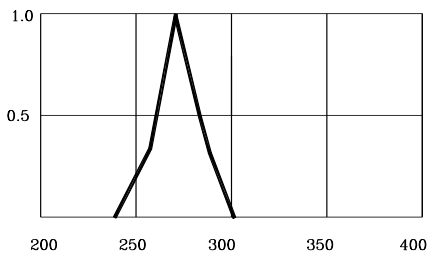
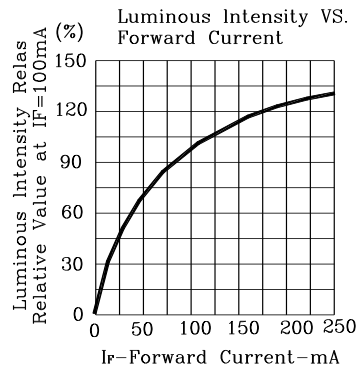
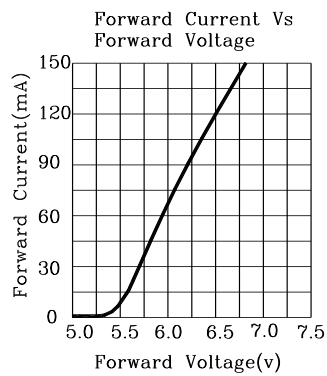


UVC SMD LED

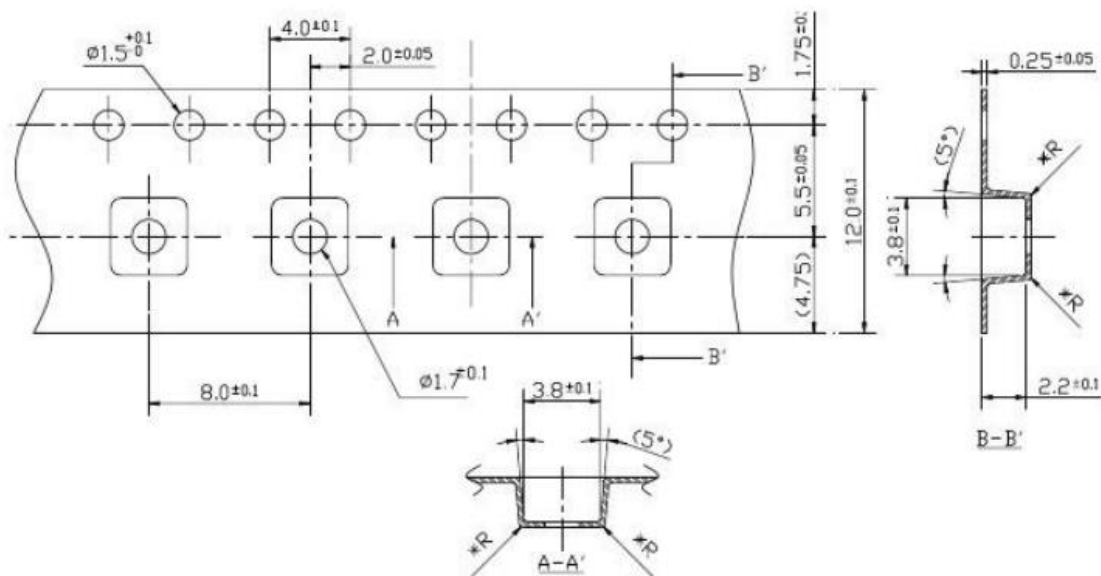
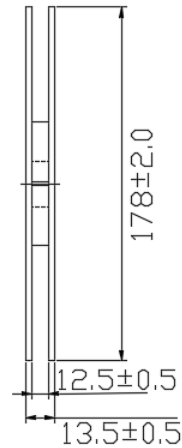
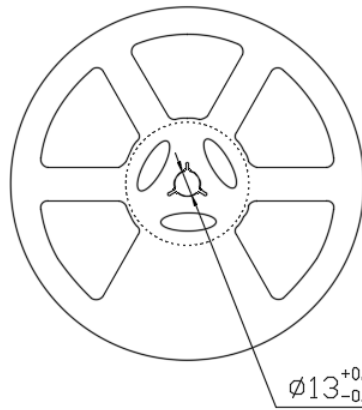
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SPECTRUM CHART



※ Package Tape Specifications: (1000pcs/Reel)





UVC SMD LED

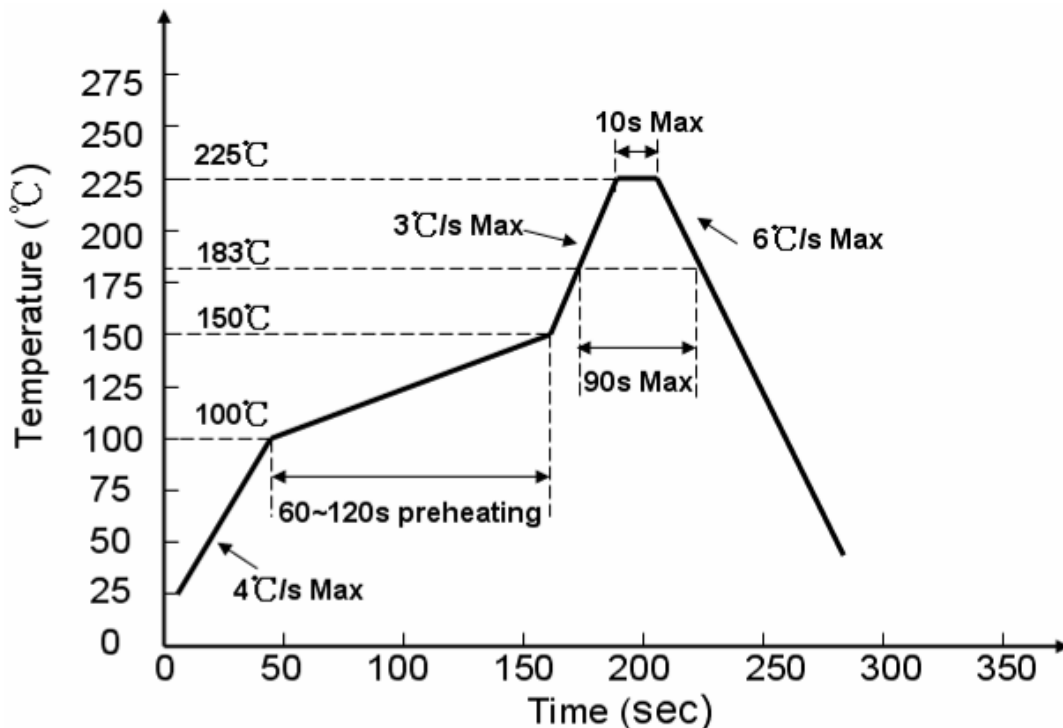
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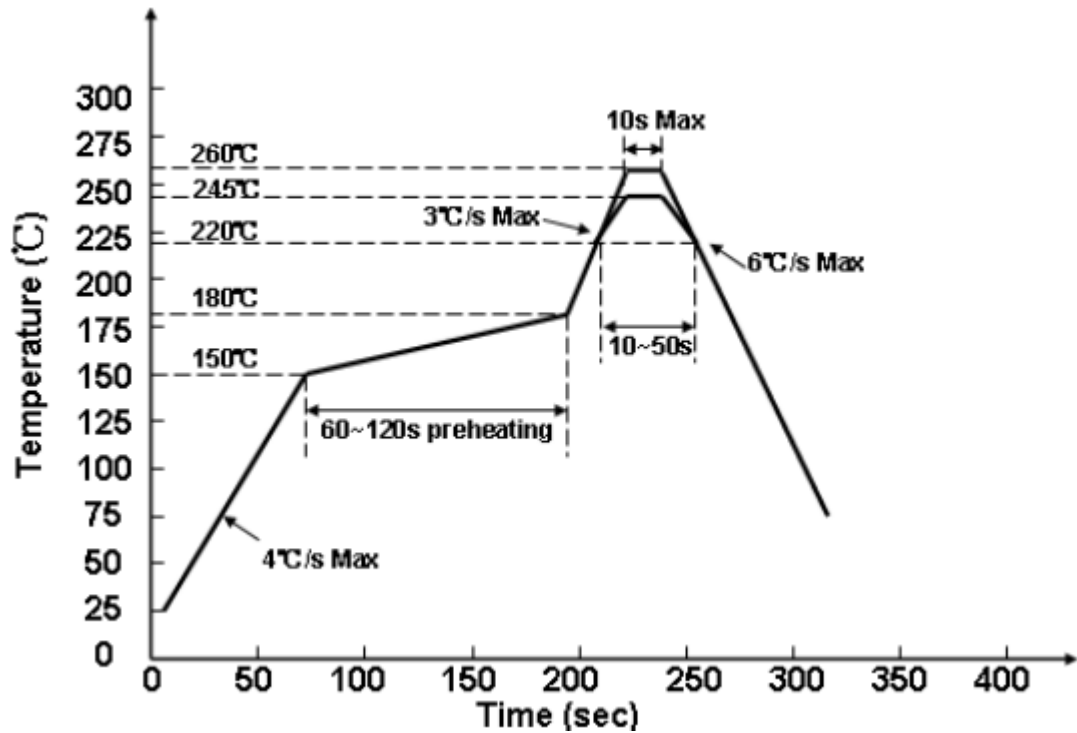
※ Precautions for use :

- 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: $60 \pm 5^\circ\text{C}$ for 12 hrs.
- 4) Soldering condition:

4.1 Lead Solder:



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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