BRIGHTEK (EUROPE) LIMITED ! Brighten Up The World With RED !



PRODUCT DATASHEET



- Ceramic High Power
 3535 1.95t Series
- Blue 460-470nm

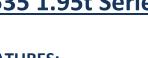


3535 1.95t Series

FEATURES:

- Package: Ceramic SMT Package with Silicon Lens
- Forward Current: 350~500mA
- Forward Voltage (typ.): 3.2V
- Luminous Flux (typ.): 26lm@350mA
- Colour: Blue
- Wavelength: 460~470nm
- Viewing Angle: 120°
- Materials:
 - Resin: Silicon (Water Clear)
 - L/T Finish: Ag-plated
- Operating Temperature: -40~+85°C
- Storage Temperature: -40~+100°C
- Grouping Parameters:
 - Forward Voltage
 - Luminous Flux
 - Dominant Wavelength
- Soldering Methods: Reflow Soldering
- MSL Level: Level 3 according to J-STD020
- Packing: 12mm tape with max.1000pcs/reel, ø180mm (7")

N0B62S56





3535 1.95t Series

APPLICATIONS:

- Portable Lighting
- Outdoor Lighting
- Commercial Lighting
- Indoor Lighting
- Industrial Lighting
- Plant Grow Light

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CHARACTERISTICS:

Parameter Symbol Ratings Unit DC Forward Current 500 IF mΑ **Reverse Voltage** V_R 5 V Reverse Current @5V 10 μΑ IR °C **Junction Temperature** Tj 115 °C **Operating Temperature** -40~+85 TOPR °C Storage Temperature Tstg -40~+100 °C Soldering Temperature Tsol 260 Thermal Resistance - Junction to Solder Point 12 °C/W R_{th}

Absolute Maximum Characteristics (Ta=25°C)

Electrical & Optical Characteristics (Ta=25°C)

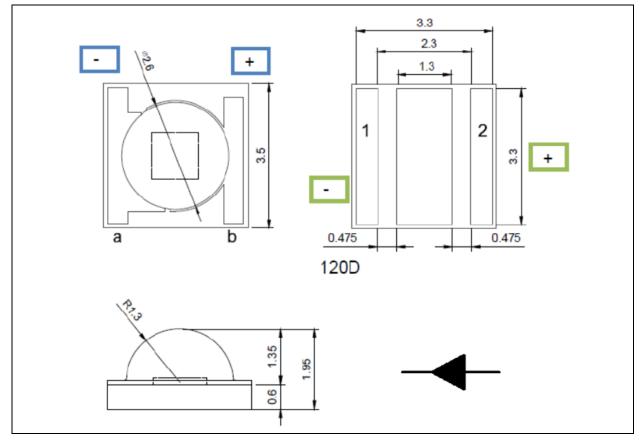
Daramatar	Symbol	Values			Unit	Test
Parameter		Min.	Тур.	Max.	Unit	Condition
Forward Voltage	VF	2.8		3.6	V	I⊧=350mA
Luminous Flux	le	15		40	lm	I⊧=350mA
Dominant Wavelength	λ_{D}	460		470	nm	I⊧=350mA
Viewing Angle	2θ _{1/2}		120		deg	I _F =350mA

1. Radiant Flux (Φ_V) ±5%, Forward Voltage (V_F) ±0.06V, Viewing angle($2\theta_{1/2}$) ±10°



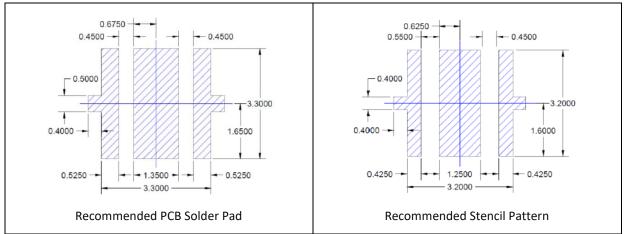
OUTLINE DIMENSION:

Package Dimension:



- 1. All dimensions are in millimetre (mm).
- 2. Tolerance ±0.13mm, unless otherwise noted.

Recommended Soldering Pad Dimension:



- 1. Dimensions are in millimetre (mm).
- 2. Tolerance ± 0.12 mm with angle tolerance $\pm 0.5^{\circ}$.



BINNING GROUPS:

Code	Min.	Max.	Unit
V28	2.8	3.0	
V30	3.0	3.2	M
V32	3.2	3.4	V
V34	3.4	3.6	

Forward Voltage Classifications (I_F = 350mA):

Luminous Flux Classifications (I_F = 350mA):

Code	Min.	Max.	Unit
B15	15	20	
B20	20	25	lue
B25	25	35	lm
B30	35	40	

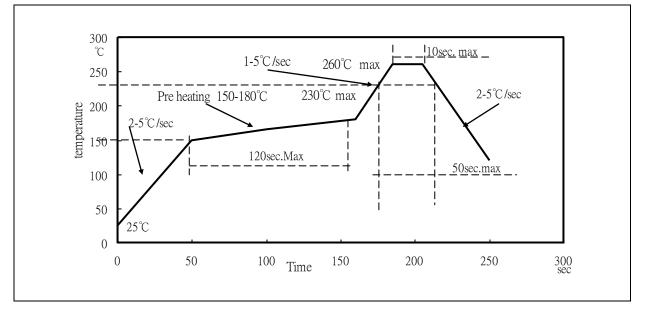
Dominant Wavelength Classifications (I_F = 350mA):

Code	Min.	Max.	Unit
B1	460	465	
B2	465	470	nm
В3	470	475	



RECOMMENDED SOLDERING PROFILE:

Reflow Lead-free Solder:



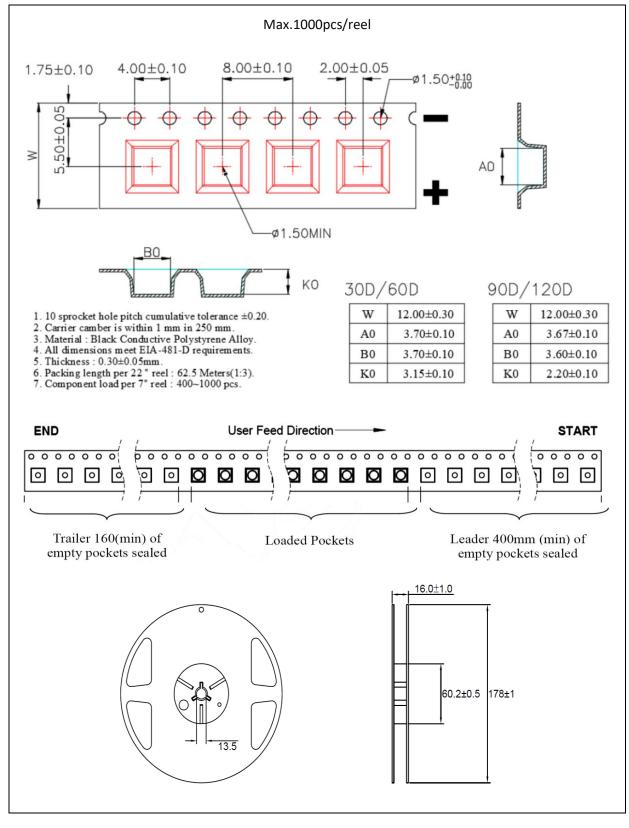
Note:

- 1. Maxima reflow soldering: 2 times.
- 2. The recommend reflow temperature is 240°C. The maxima soldering temperature should be limited to 260°C.
- 3. Before, during, and after soldering, should not apply stress on the components and PCB board.



PACKING SPECIFICATION:

Reel Dimension:



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PRECAUTIONS OF USE:



Storage:

It is recommended to store the products in the following conditions:

- Humidity: 60% R.H. Max.
- Temperature: 5°C~30°C (41°F ~86°F).

Shelf life in sealed bag: 12 months at 5°C~30°C and <60% R.H.

Once the package is opened, the products should be used within a week. Otherwise, they should be kept in a damp-proof box with descanting agent <10% R.H. and apply baking before use.

Baking:

It is recommended to bake the LED before soldering if the pack has been unsealed for longer than 24hrs. The suggested baking conditions are as followings:

• 60±3°C x 24hrs and <5%RH, taped / reel package.

It's normal to see slight color fading of carrier (light yellow) after baking in process.

Testing Circuit:



Must apply resistor(s) for protection (over current proof).

Cleaning:

Use alcohol-based cleaning solvents such as isopropyl alcohol to clean the LED carrier / package. Avoid putting any stress force directly on to the LED lens.

ESD (Electrostatic Discharge):

Static Electricity or power surge will damage the LED. Use of a conductive wrist band or anti-electrosatic glove is recommended when handing the LED all time. All devices, equipment, machinery, work tables, and storage racks must be properly grounded.

In the events of manual working in process, make sure the devices are well protected from ESD at any time.



REVISION RECORD:

Version	Date	Summary of Revision
A1.0	27/06/2023	Datasheet set-up.