BRIGHTEK (EUROPE) LED! Brighten Up The World W



PRODUCT DATASHEET



- Ceramic High Power 3535 2.34t Series
- Blue (460-475nm)



3535 2.34t Series

FEATURES:

- Package: Ceramic SMT Package with Silicon Lens
- Forward Current: 350~700mA
- Forward Voltage (typ.): 3.2V
- Luminous Flux (typ.): 30lm@350mA .
- Colour: Blue .
- . Dominant Wavelength: 460~475nm
- Viewing Angle: 90° •
- **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: according to J-STD020 MSL 4
- Packing: 12mm tape with max.1000pcs/reel, ø180mm (7")

N0B56S79Z





3535 2.34t Series

APPLICATIONS:

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



CHARACTERISTICS:

Parameter	Symbol	Ratings	Unit
DC Forward Current	IF	700	mA
Pulse Forward Current	Ipf	1000	mA
Reverse Voltage	VR	5	V
Reverse Current @5V	IR	10	μA
Junction Temperature	Tj	115	°C
Operating Temperature	Topr	-40~+85	°C
Storage Temperature	Т _{STG}	-40~+100	°C
Soldering Temperature	Tsol	260	°C
Thermal Resistance - Junction to Solder Point	R_{th}	7	°C/W

Absolute Maximum Characteristics (T_a=25°C)

 st in the order of Cool White / Warm White

Daramatar	Symbol	Values			Unit	Test
Parameter	Symbol	Min.	Тур.	Max.	Unit	Condition
Forward Voltage	V _F	2.8		3.6	V	I _F =350mA
Luminous Flux	Φv	25		35	lm	I⊧=350mA
Dominant Wavelength	λ_{D}	460		475	nm	I⊧=350mA
Viewing Angle	20 _{1/2}		90		deg	I _F =350mA

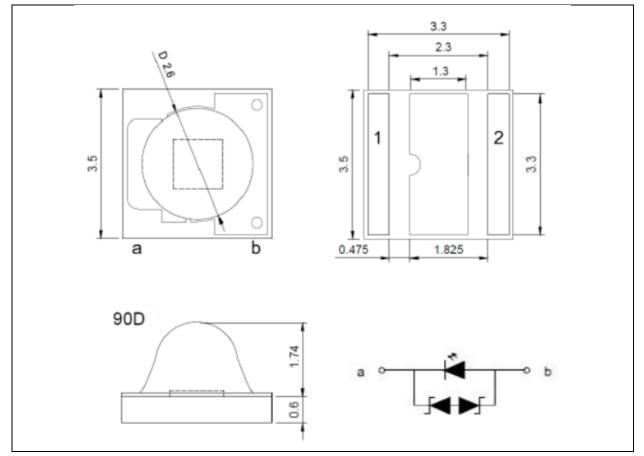
Electrical & Optical Characteristics (Ta=25°C)

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

OUTLINE DIMENSION:

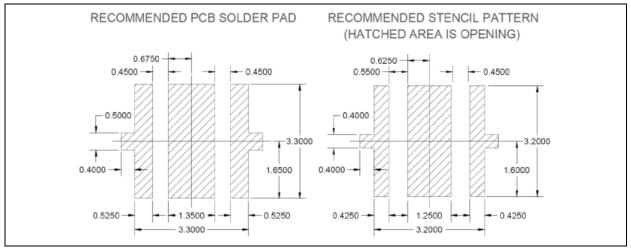


Package Dimension:



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

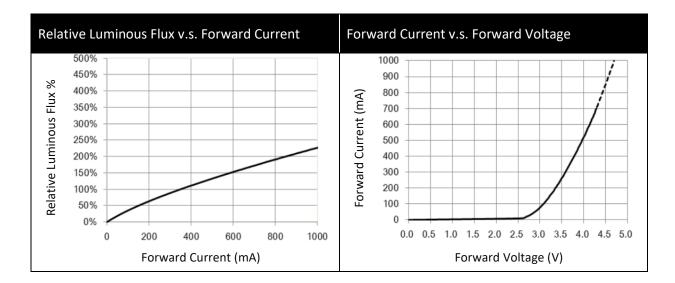
Recommended Soldering Pad Dimension:

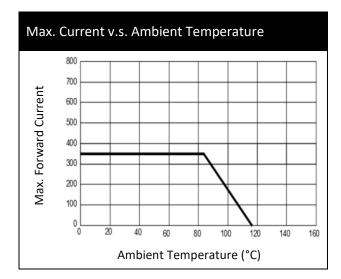


- 1. Dimensions are in millimetre (mm).
- 2. Tolerance ± 0.12 mm with angle tolerance $\pm 0.5^{\circ}$.



ELECTRO-OPTICAL CHARACTERISTICS:







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):

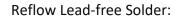
Code	Min.	Max.	Unit
B15	15	20	
B20	20	25	lm
B25	25	30	

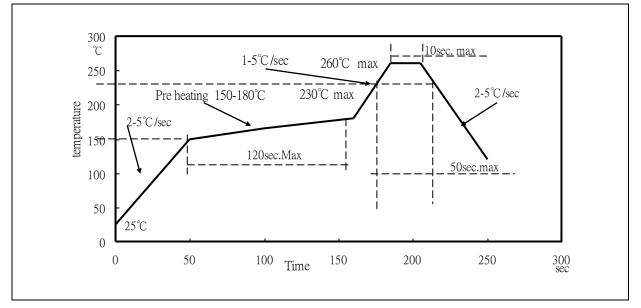
Dominant Wavelength Classifications (I_F = 350mA):

Code	Min.	Max.	Unit
B1	460	465	
В2	465	470	nm
В3	470	475	



RECOMMENDED SOLDERING PROFILE:





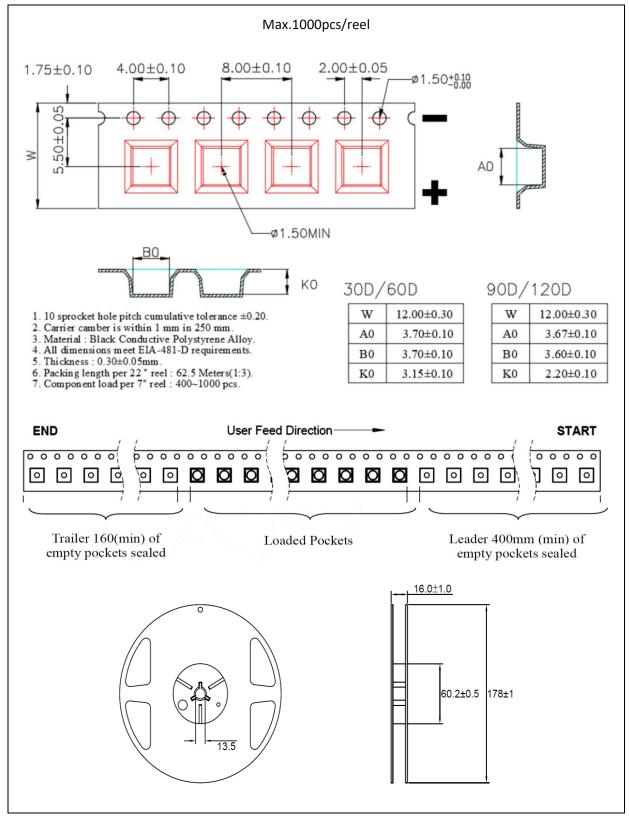
Note:

- 1. Maxima reflow soldering: 3 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:



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.

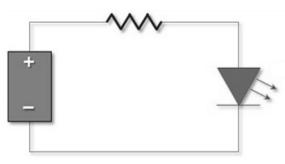
Baking:

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	06/07/2021	Datasheet set-up.
A1.1	01/02/2025	New datasheet format.