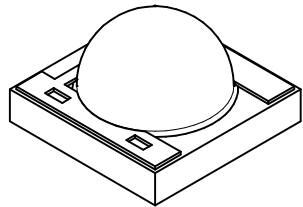
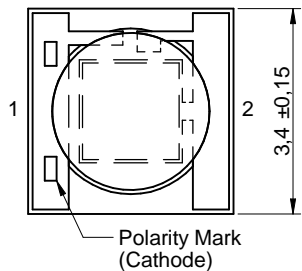
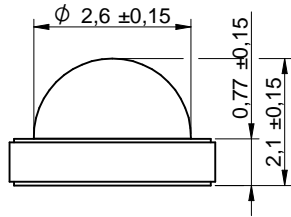
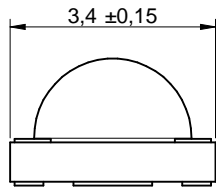
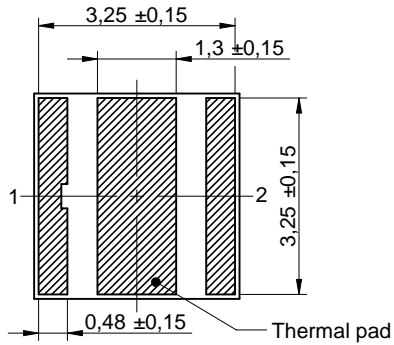
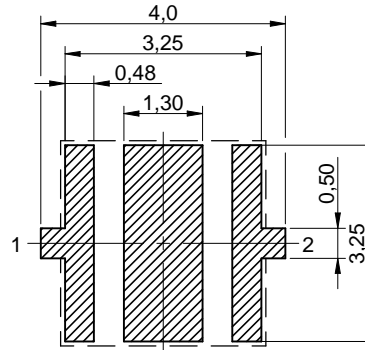


Dimensions: [mm]



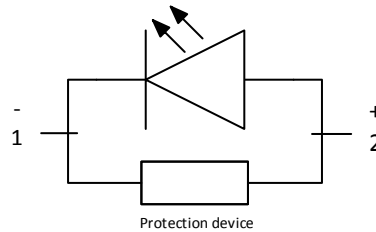
Scale - 8:1

Recommended Land Pattern: [mm]



Scale - 8:1

Schematic:



Absolute Maximum Ratings (Ambient Temperature 25°C):

Properties		Test conditions	Value	Unit
Power Dissipation	P_{Diss}		3.08	W
Peak Forward Current	$I_{F Peak}$	duty/ 10 @ 1 kHz	1000	mA
Continuous Forward Current	I_F		800	mA
ESD Threshold/ Human Body Model	$V_{ESD HBM}$		8000	V
Absolute Thermal Resistance Junction to Solder Point	$R_{\theta JS}$		8	K/W
Junction Temperature	T_J		150	°C

Optical Properties:

Chip Technology	AlInGaN
Emitting Color	Ultraviolet
Lens Type	Silicone Dome Lens Waterclear

General Information:

Operating Temperature	-40 up to +85 °C
Storage Conditions (in original packaging)	< 40 °C ; < 90 % RH
Storage Conditions (for single parts)	-40 up to +125 °C
Moisture Sensitivity Level (MSL)	2

CAUTION - UV



- UV LEDs emit high intensity UV light.
- Do not look directly into the UV light during operation. This can be harmful to your eyes and skin.
- Wear protective eyewear to avoid exposure to UV light.
- Do not view directly with optical instruments.
- Keep out of reach of children.

Avoid direct eye and skin exposure to UV light!

Würth Elektronik eiSos GmbH & Co. KG
EMC & Inductive Solutions

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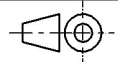


CREATED
DaSc

CHECKED
ZAn

GENERAL TOLERANCE
DIN ISO 2768-1m

PROJECTION
METHOD



DESCRIPTION

**WL-SUMW SMT Ultraviolet
Ceramic Waterclear**

ORDER CODE

15335338AA350

SIZE
3535

REVISION
003.000

STATUS
Valid

DATE (YYYY-MM-DD)
2018-09-30

BUSINESS UNIT
eiPal

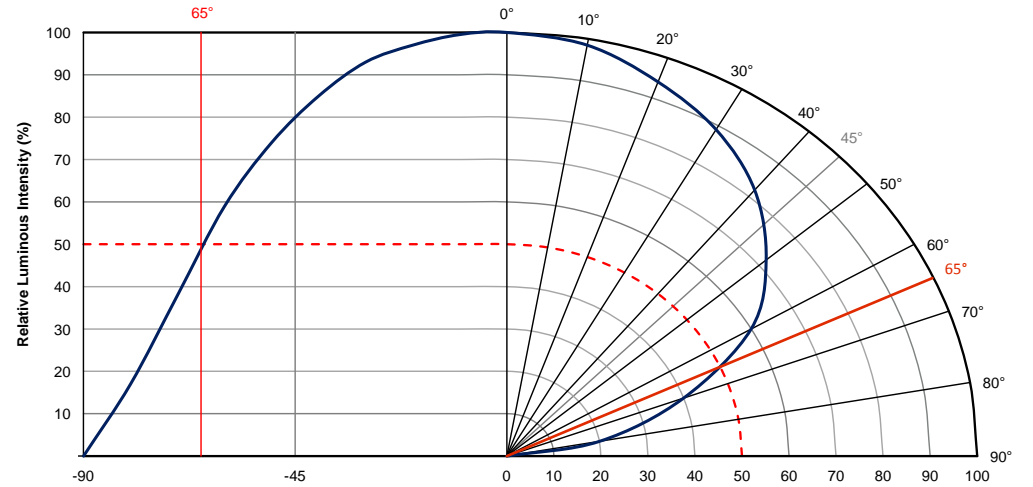
PAGE
1/9

Electrical & Optical Properties:

Properties		Test conditions	Value			Unit
			min.	typ.	max.	
Peak Wavelength	λ_{Peak}	500 mA		385		nm
Radiant Flux	Φ_e	500 mA	800		1100	mW
Forward Voltage	V_F	500 mA	3.2	3.5	4.2	V
Spectral Bandwidth	$\Delta\lambda$	500 mA		15		nm
Viewing Angle Phi 0°	$2\theta_{50\%}$	500 mA		130		°

Properties	Test Conditions	Bin	Value			Unit
			min.	typ.	max.	
Forward Voltage V_F	500 mA	2	3.2		3.4	V
		3	3.4		3.6	V
		4	3.6		3.8	V
		5	3.8		4	V
		6	4		4.2	V
Radiant Flux Φ_e	500 mA	E	800		850	mW
		F	850		900	mW
		G	900		1000	mW
		H	1000		1100	mW

Viewing Angle:



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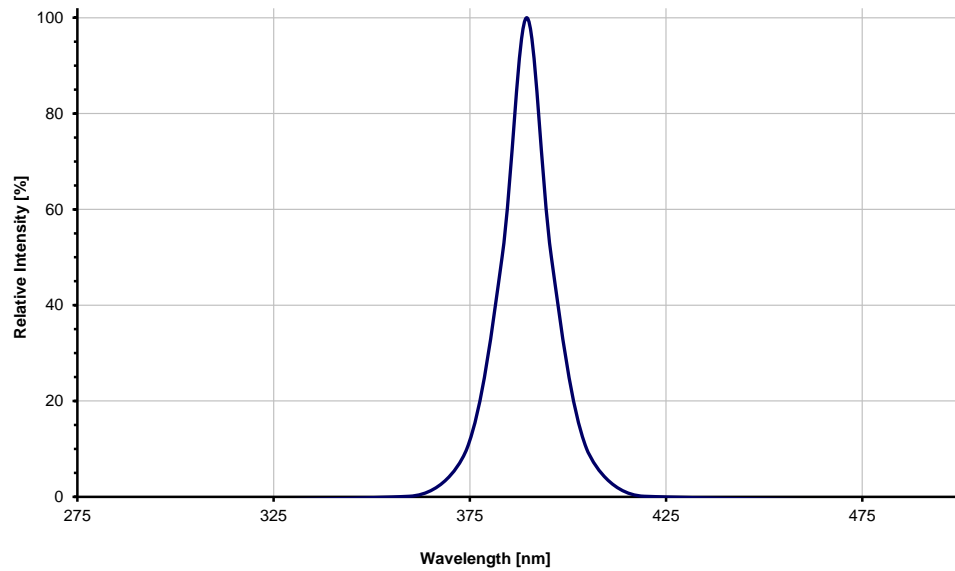
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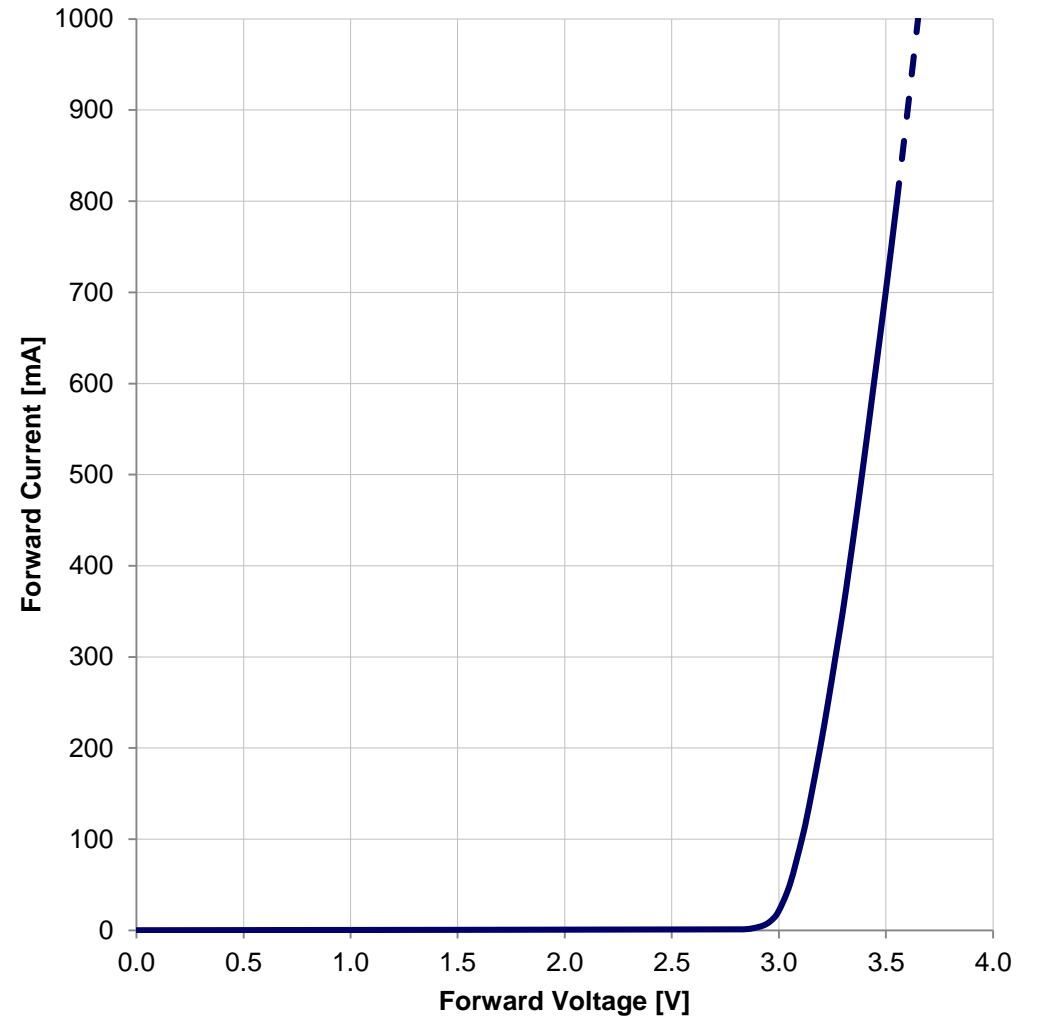


CREATED DaSc	CHECKED ZAn	GENERAL TOLERANCE DIN ISO 2768-1m	PROJECTION METHOD 	
DESCRIPTION WL-SUMW SMT Ultraviolet Ceramic Waterclear			ORDER CODE 15335338AA350	
SIZE 3535	REVISION 003.000	STATUS Valid	DATE (YYYY-MM-DD) 2018-09-30	BUSINESS UNIT eiPal
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Spectral:

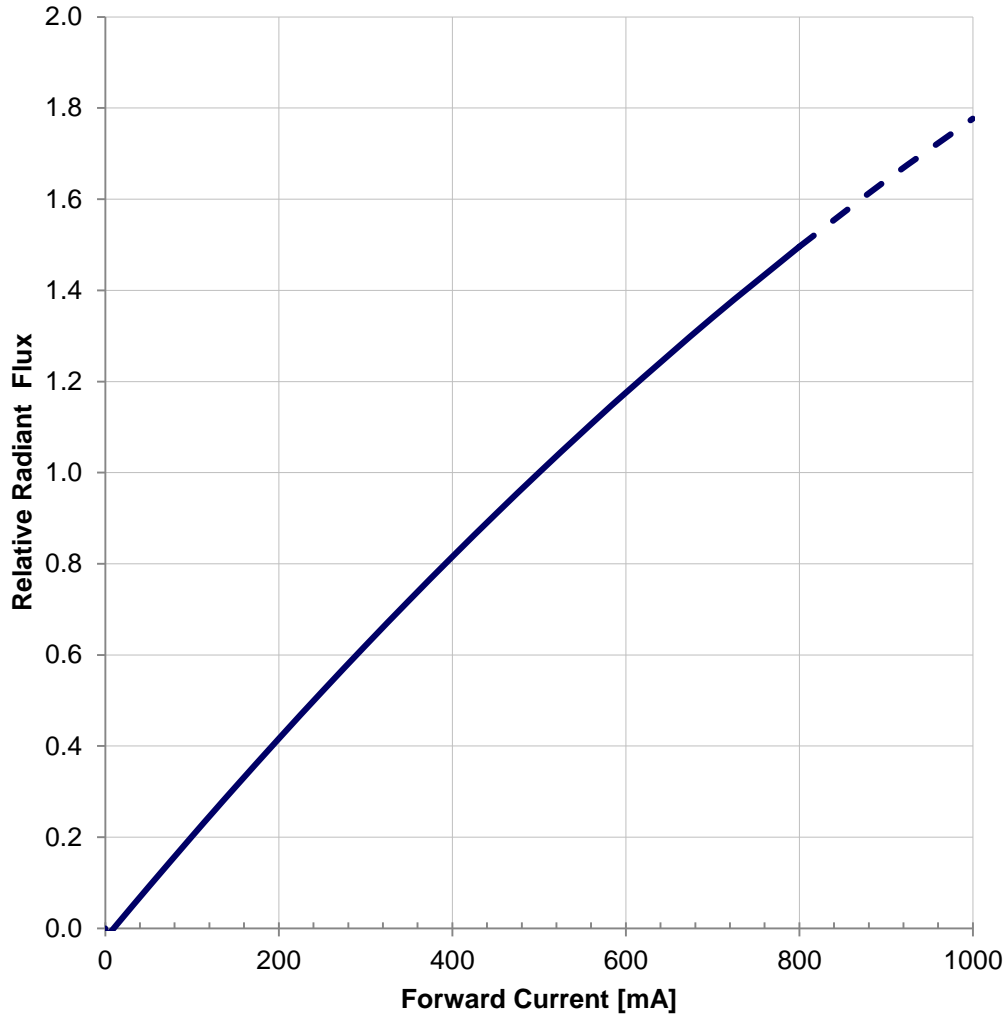


Forward Current vs. Forward Voltage:

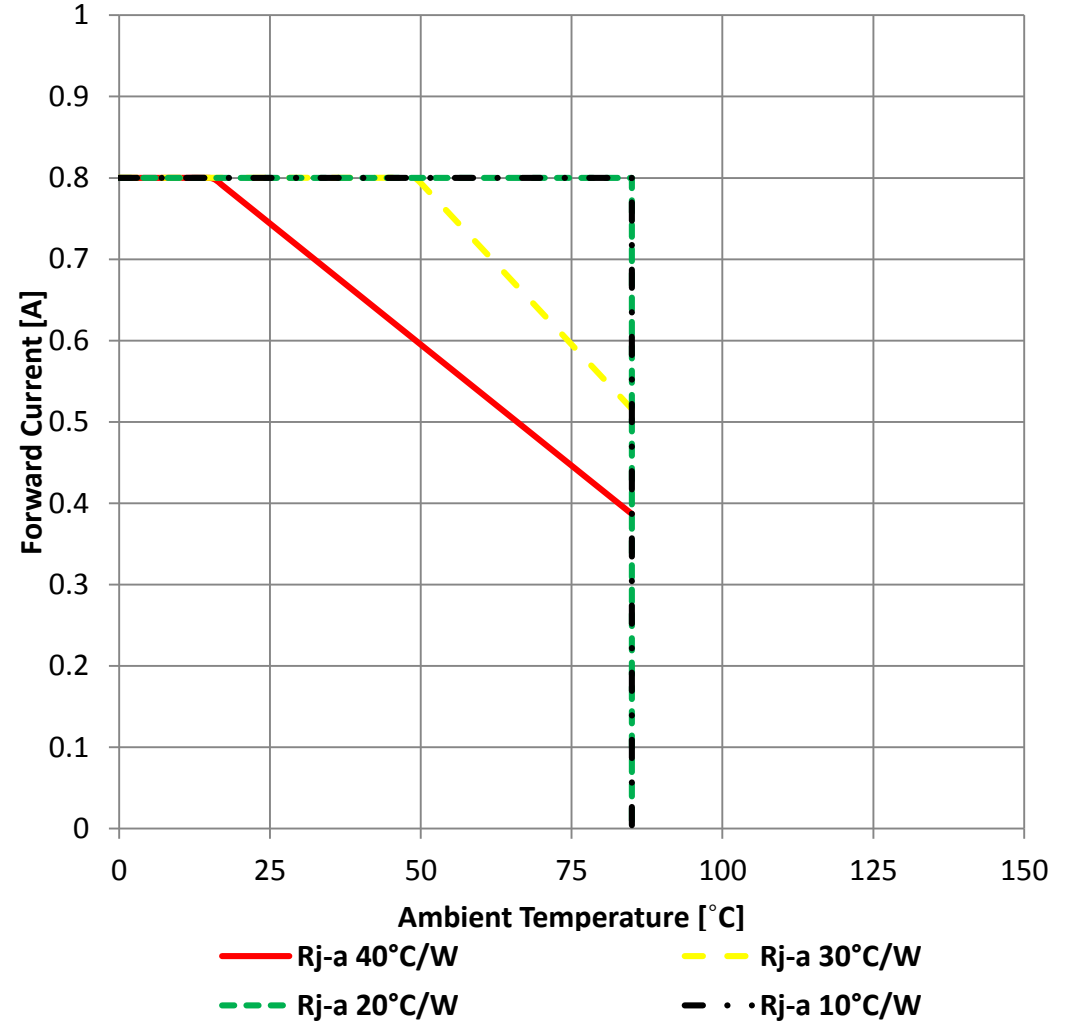


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SIZE 3535	REVISION 003.000	STATUS Valid	DATE (YYYY-MM-DD) 2018-09-30	BUSINESS UNIT eiPal	PAGE 3/9	

Radiant Flux vs. Forward Current:



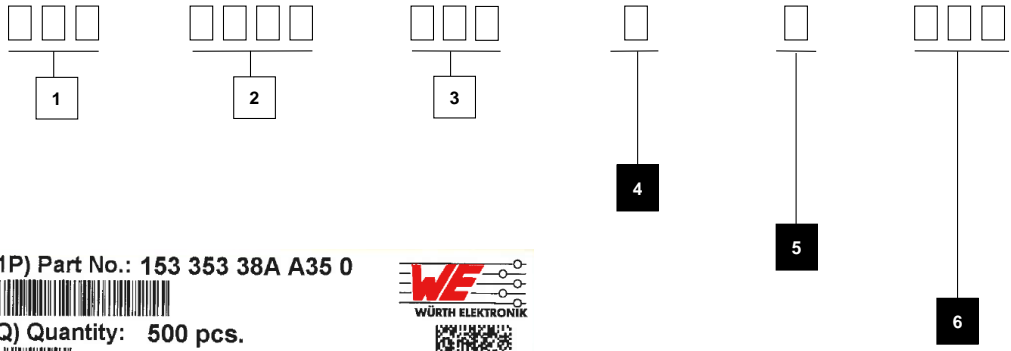
Derating Curve:



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This electronic component has been designed and developed for usage in general electronic equipment only. This product is not authorized for use in equipment where a higher safety standard and reliability standard is especially required or where a failure of the product is reasonably expected to cause severe personal injury or death, unless the parties have executed an agreement specifically governing such use. Moreover Würth Elektronik eiSos GmbH & Co KG products are neither designed nor intended for use in areas such as military, aerospace, aviation, nuclear control, submarine, transportation (automotive control, train control, ship control), transportation signal, disaster prevention, medical, public information network etc. Würth Elektronik eiSos GmbH & Co KG must be informed about the intent of such usage before the design-in stage. In addition, sufficient reliability evaluation checks for safety must be performed on every electronic component which is used in electrical circuits that require high safety and reliability functions or performance.



(1P) Part No.: 153 353 38A A35 0



(Q) Quantity: 500 pcs.



(1T) Lot No.: xxxxxxxxxxx4C385



(16D) Date Code: 2016 - 09 - 19



SMD 3535 UV 385nm
750mW, 3.2V, 130°

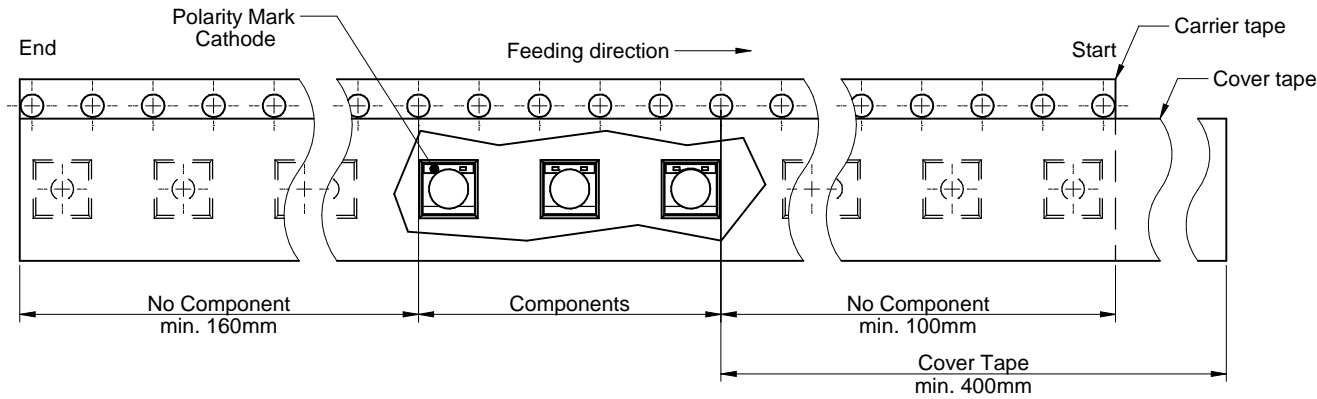


Pos 1	Pos 2	Pos 3	Pos 4	Pos 5	Pos 6
xxx	xxxx	xxx	x	x	xxx
Internal Code	Product Information	Product Code	Forward voltage	Radiant flux	Peak Wavelength

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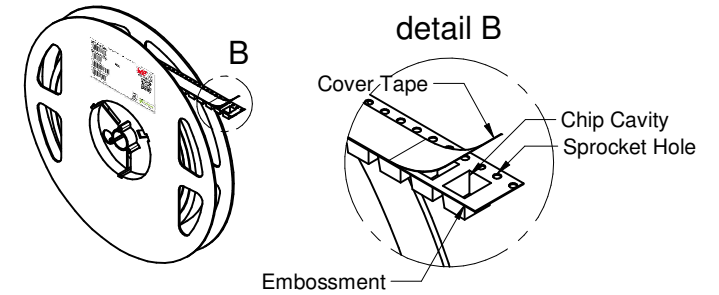
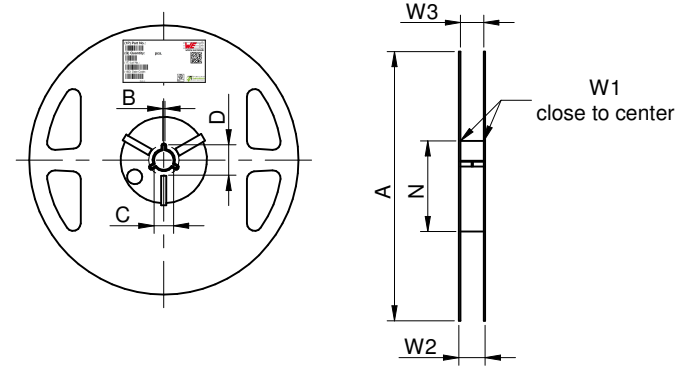
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Packaging Specification - Tape and Reel: [mm]

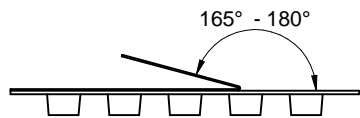


packaging is referred to the international standard IEC 60286-3:2013

	A0	B0	W	T	T1	T2	K0	P0	P1	P2	D0	D1	E1	E2	F	Tape Type 2a	VPE / packaging unit	
tolerance	typ.	typ.	+0,3/-0,1	typ.	typ.	typ.	typ.	±0,1			+0,1/-0,0	typ.	+0,1/-0,0	min.			pcs.	
size	3535	3.80	3.80	12.00	0.25	0.10	2.45	2.20	4.00	8.00	2.00	1.50	1.50	1.75	10.25	5.50	Polystyrene	500



	A	B	C	D	N	W1	W2	W3	W3	
tolerance	±2,0	min.	±0,8	min.	min.	+1,5	max.	min.	max.	
Tape width	12 mm	178,00	1,50	13,00	20,20	50,00	12,40	18,40	11,90	15,40



	Pull-of force
Tape width	12 mm
	0,1 N - 1,3 N

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CREATED	CHECKED	GENERAL TOLERANCE	PROJECTION METHOD
DaSc	ZAn	DIN ISO 2768-1m	
DESCRIPTION		ORDER CODE	
WL-SUMW SMT Ultraviolet Ceramic Waterclear		15335338AA350	
SIZE	REVISION	STATUS	DATE (YYYY-MM-DD)
3535	003.000	Valid	2018-09-30
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Classification Reflow Profile for SMT components:



Classification Reflow Soldering Profile:

Profile Feature		Value
Preheat Temperature Min	$T_{s \text{ min}}$	150 °C
Preheat Temperature Max	$T_{s \text{ max}}$	200 °C
Preheat Time t_s from $T_{s \text{ min}}$ to $T_{s \text{ max}}$	t_s	max. 60 - 120 seconds
Ramp-up Rate (T_L to T_p)		3 °C/ second max.
Liquidous Temperature	T_L	217 °C
Time t_L maintained above T_L	t_L	max. 60 seconds
Peak package body temperature	T_p	see table
Time within 5°C of actual peak temperature	t_p	max. 10 seconds
Ramp-down Rate (T_L to T_p)		6 °C/ second max.
Time 25°C to peak temperature		max. 220 seconds

refer to IPC/ JEDEC J-STD-020E

Package Classification Reflow Temperature:

Properties	Volume mm ³ <350	Volume mm ³ 350-2000	Volume mm ³ >2000
PB-Free Assembly Package Thickness < 1.6 mm	260 °C	260 °C	260 °C
PB-Free Assembly Package Thickness 1.6 mm - 2.5 mm	260 °C	250 °C	245 °C
PB-Free Assembly Package Thickness ≥ 2.5 mm	250 °C	245 °C	245 °C
Applied cycles	2 cycles max.		

refer to IPC/ JEDEC J-STD-020E

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SIZE 3535	REVISION 003.000	STATUS Valid	DATE (YYYY-MM-DD) 2018-09-30	BUSINESS UNIT eiPal	PAGE 7/9

Cautions and Warnings:

The following conditions apply to all goods within the product series of Optoelectronic Components of Würth Elektronik eiSos GmbH & Co. KG:

General:

- This electronic component was designed and manufactured for use in general electronic equipment.
- Würth Elektronik must be asked for written approval (following the PPAP procedure) before incorporating the components into any equipment in fields such as military, aerospace, aviation, nuclear control, submarine, transportation (automotive control, train control, ship control), transportation signal, disaster prevention, medical, public information network, etc. where higher safety and reliability are especially required and/or if there is the possibility of direct damage or human injury.
- Electronic components that will be used in safety-critical or high-reliability applications, should be pre-evaluated by the customer.
- The component was designed and manufactured to be used within the datasheet specified values. If the usage and operation conditions specified in the datasheet are not met, the component may be damaged or dissolved.
- Do not drop or impact the components, as the LED body may flake apart.
- Würth Elektronik products are qualified according to international standards, which are listed in each product reliability report. Würth Elektronik does not guarantee any customer qualified product characteristics beyond Würth Elektronik's specifications, for its validity and sustainability over time.
- The customer is responsible for the functionality of their own products. All technical specifications for standard products also apply to customer specific products.

Product specific:

Soldering:

- The solder profile must comply with the Würth Elektronik technical soldering specification. All other profiles will void the warranty.
- All other soldering methods are at the customer's own risk.

Cleaning and Washing:

- Washing agents used during the production to clean the customer application might damage or change the characteristics of the LED body, marking or plating. Washing agents may have a negative effect on the long-term functionality of the product.
- Using a brush during the cleaning process could break the LED body. Therefore, we do not recommend using a brush during the PCB cleaning process.

Potting:

- If the product is potted in the customer application, the potting material might shrink or expand during and after hardening. Shrinking could lead to an incomplete seal, allowing contaminants into the LED body, pins or termination. Expansion could damage the LED body, pins or termination. We recommend a manual inspection after potting to avoid these effects.

Storage Conditions:

- A storage of Würth Elektronik products for longer than 12 months is not recommended. Within other effects, the terminals may suffer degradation, resulting in bad solderability. Therefore, all products shall be used within the period of 12 months based on the day of shipment.
- Do not expose the components to direct sunlight.
- The storage conditions in the original packaging are defined according to DIN EN 61760-2.
- If there is a moisture sensitive component, the storage condition in the original packaging is defined according to IPC/JEDEC-J-STD-033. It is also recommended to return the component to the original moisture proof bag and reseal the moisture proof bag again.

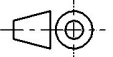

Handling:

- Violation of the technical product specifications such as exceeding the nominal rated current, will void the warranty.
- Product design might influence the automatic optical inspection.
- Certain LED surfaces consist of soft material. Pressure on the top surface has to be handled carefully to prevent negative influence to the function and reliability of the LEDs.
- ESD prevention methods need to be applied for manual handling and processing by machinery.
- Resistors for protection are obligatory.
- Luminaires in operation could harm human vision or skin on a photo-biological level, therefore direct light impact shall be avoided. All products are additionally certified as risk groups 0 to 2 according to DIN EN 62471:2008.
- In addition to LEDs testing, products which incorporate these devices have to follow the safety precautions given in IEC 60825-1 and IEC 62471.

Technical specification:

- The typical and/or calculated values of technical parameters can only reflect statistical figures. The actual parameters of each single product, may differ from the typical and/or calculated values or the typical characteristic line.
- On each reel, only one bin is sorted and taped. The bin is defined on intensity, chromaticity coordinate or wavelength and forward voltage.
- In order to ensure highest availability, the reel binning of standard deliveries can vary. A single bin cannot be ordered. Please contact us in advance, if you need a particular bin sorting before placing your order to clarify the lead time, MOQ and pricing.

These cautions and warnings comply with the state of the scientific and technical knowledge and are believed to be accurate and reliable. However, no responsibility is assumed for inaccuracies or incompleteness.

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DESCRIPTION WL-SUMW SMT Ultraviolet Ceramic Waterclear			ORDER CODE 15335338AA350		
SIZE 3535	REVISION 003.000	STATUS Valid	DATE (YYYY-MM-DD) 2018-09-30	BUSINESS UNIT eiPal	PAGE 8/9

Important Notes

The following conditions apply to all goods within the product range of Würth Elektronik eiSos GmbH & Co. KG:

1. General Customer Responsibility

Some goods within the product range of Würth Elektronik eiSos GmbH & Co. KG contain statements regarding general suitability for certain application areas. These statements about suitability are based on our knowledge and experience of typical requirements concerning the areas, serve as general guidance and cannot be estimated as binding statements about the suitability for a customer application. The responsibility for the applicability and use in a particular customer design is always solely within the authority of the customer. Due to this fact it is up to the customer to evaluate, where appropriate to investigate and decide whether the device with the specific product characteristics described in the product specification is valid and suitable for the respective customer application or not.

2. Customer Responsibility related to Specific, in particular Safety-Relevant Applications

It has to be clearly pointed out that the possibility of a malfunction of electronic components or failure before the end of the usual lifetime cannot be completely eliminated in the current state of the art, even if the products are operated within the range of the specifications. In certain customer applications requiring a very high level of safety and especially in customer applications in which the malfunction or failure of an electronic component could endanger human life or health it must be ensured by most advanced technological aid of suitable design of the customer application that no injury or damage is caused to third parties in the event of malfunction or failure of an electronic component. Therefore, customer is cautioned to verify that data sheets are current before placing orders. The current data sheets can be downloaded at www.we-online.com.

3. Best Care and Attention

Any product-specific notes, cautions and warnings must be strictly observed. Any disregard will result in the loss of warranty.

4. Customer Support for Product Specifications

Some products within the product range may contain substances which are subject to restrictions in certain jurisdictions in order to serve specific technical requirements. Necessary information is available on request. In this case the field sales engineer or the internal sales person in charge should be contacted who will be happy to support in this matter.

5. Product R&D

Due to constant product improvement product specifications may change from time to time. As a standard reporting procedure of the Product Change Notification (PCN) according to the JEDEC-Standard inform about minor and major changes. In case of further queries regarding the PCN, the field sales engineer or the internal sales person in charge should be contacted. The basic responsibility of the customer as per Section 1 and 2 remains unaffected.

6. Product Life Cycle

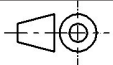

Due to technical progress and economical evaluation we also reserve the right to discontinue production and delivery of products. As a standard reporting procedure of the Product Termination Notification (PTN) according to the JEDEC-Standard we will inform at an early stage about inevitable product discontinuance. According to this we cannot guarantee that all products within our product range will always be available. Therefore it needs to be verified with the field sales engineer or the internal sales person in charge about the current product availability expectancy before or when the product for application design-in disposal is considered. The approach named above does not apply in the case of individual agreements deviating from the foregoing for customer-specific products.

7. Property Rights

All the rights for contractual products produced by Würth Elektronik eiSos GmbH & Co. KG on the basis of ideas, development contracts as well as models or templates that are subject to copyright, patent or commercial protection supplied to the customer will remain with Würth Elektronik eiSos GmbH & Co. KG. Würth Elektronik eiSos GmbH & Co. KG does not warrant or represent that any license, either expressed or implied, is granted under any patent right, copyright, mask work right, or other intellectual property right relating to any combination, application, or process in which Würth Elektronik eiSos GmbH & Co. KG components or services are used.

8. General Terms and Conditions

Unless otherwise agreed in individual contracts, all orders are subject to the current version of the "General Terms and Conditions of Würth Elektronik eiSos Group", last version available at www.we-online.com.

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Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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