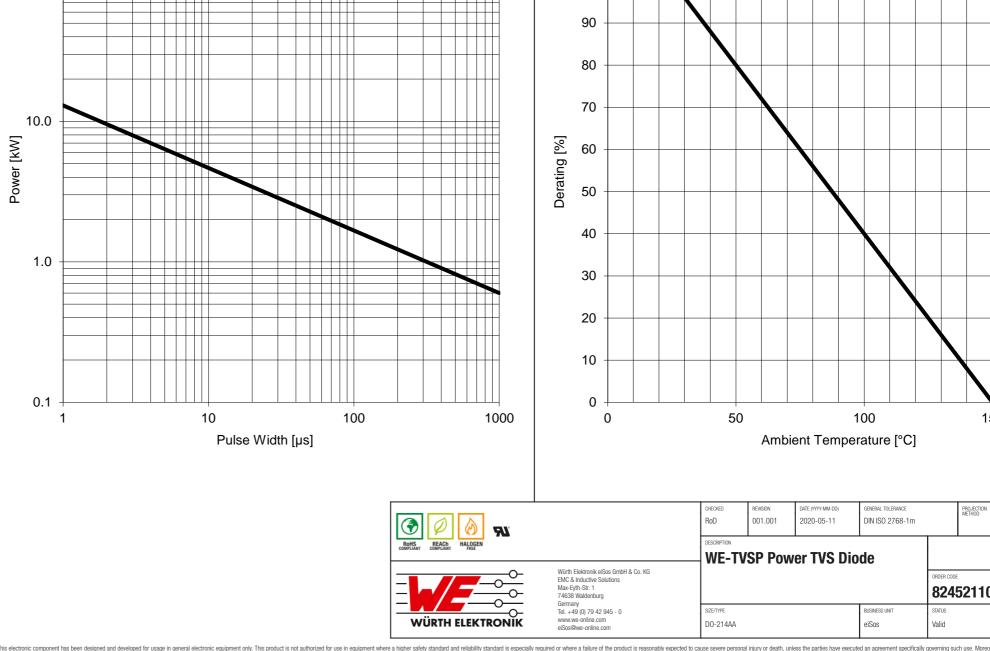
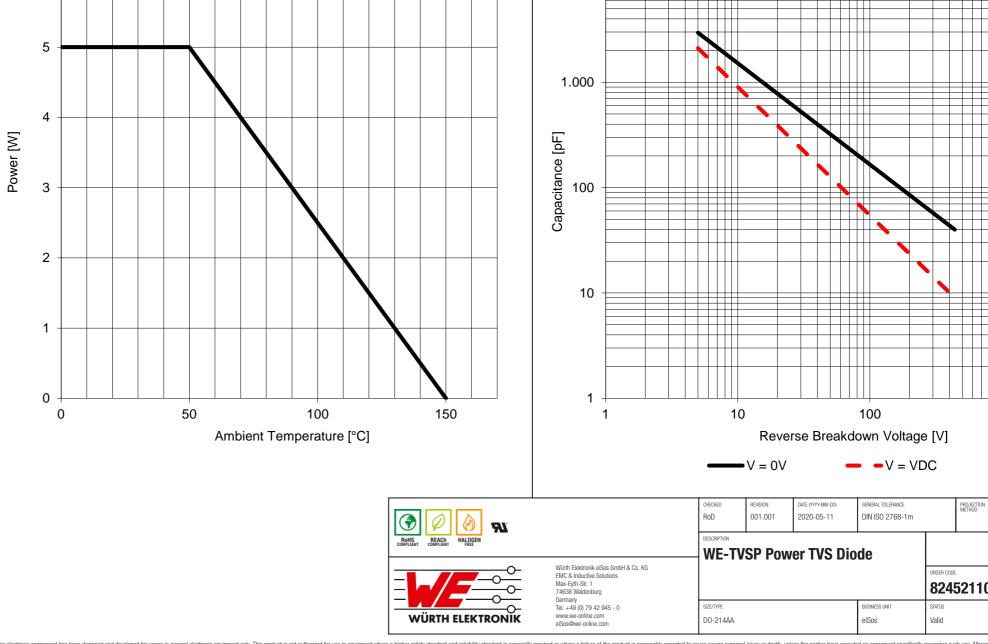


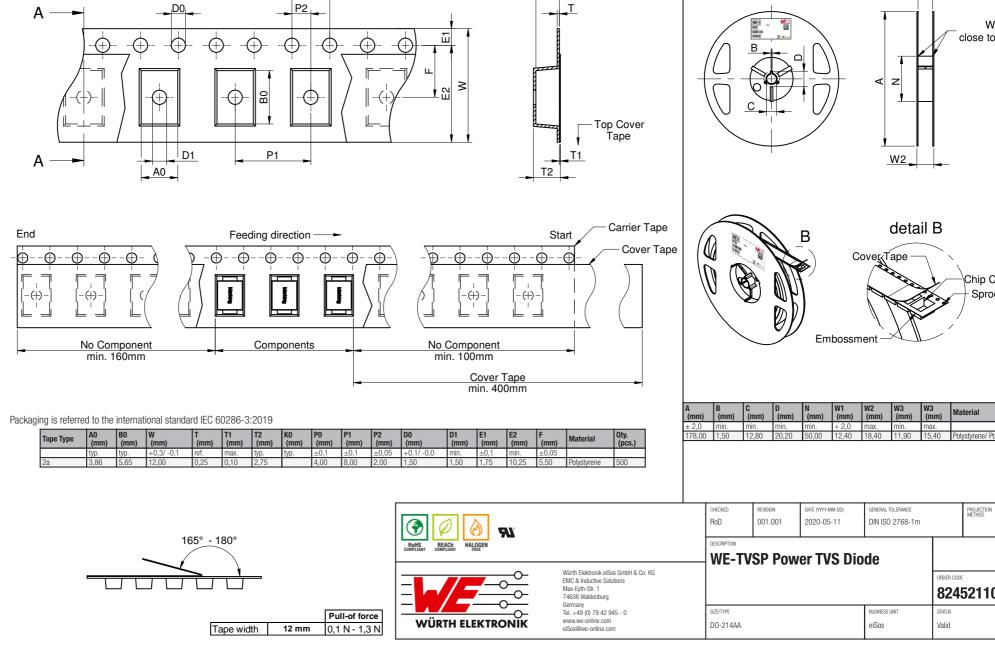
This electronic component has been designed and developed for usage in general electronic equipment only. This product is not authorized for use in equipment where a higher safety standard and reliability standard is especially required or where a failure of the product is reasonably expected to cause severe personal injury or death, unless the parties have executed an agreement specifically governing such use. Morec & Co KG products are neither designed on intended for use in areas such as military, aerospace, aviation, nuclear protocols in areas period in the internet of the product is reasonably expected to cause severe personal injury or death, unless the parties have executed an agreement specifically governing such use. Morec & Co KG products are neither designed on intended for use in areas such as military, aerospace, aviation, nuclear personal injury or death, unless the information dubut the intent of such usage before the design-in stage. In addition, sufficient relia must be performed on every electronic component which is used in electrical circuitority or performance.



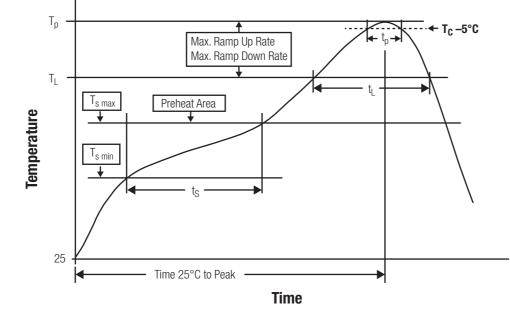
This electronic component has been designed and developed for usage in general electronic equipment only. This product is not authorized for use in equipment where a higher safety standard and reliability standard is especially required or where a failure of the product is reasonably expected to cause severe personal injury or death, unless the parties have executed an agreement specifically governing such use. More & 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.. With Elektronik elSos GmbH & Co KG must be informed about the intent of such usage before the design-in stage. In addition, sufficient relia must be performed on every electronic component which is used in electrical circuits that require high safety and reliability functions or performance.



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 as 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. Morec & 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), train control, signal, disaster prevention, medical, public information network etc.. Wurth Elektronik elSos GmbH & Co KG must be informed about the intent of such usage before the design-in stage. In addition, sufficient relia must be performed on every electronic component which is used in electrical circuits that require high safety and reliability functions or performance.



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 not authorized tor 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. More & Co KG products are neither designed not intended for use in areas such as military, aerospace, exiation, nucleac, aution, subcontrol, train control, train control



Preheat Temperature Max	T _{s max}	200 °C
Preheat Time t_s from T_{smin} to T_{smax}	t _s	60 - 120 seconds
Ramp-up Rate (T _L to T _P)		3 °C/ second max.
Liquidous Temperature	TL	217 °C
Time t_L maintained above T_L	tL	60 - 150 seconds
Peak package body temperature	Т _р	$T_p \le T_c$, see Table below
Time within 5°C of actual peak temperature	t _p	20 - 30 seconds
Ramp-down Rate (T _P to T _L)		6 °C/ second max.
Time 25°C to peak temperature		8 minutes max.

refer to IPC/ JEDEC J-STD-020E

Package Classification Reflow Temperature (T_c):

Properties	Volume mm ³ <350	Volume mm ³ 350-2000	Volume >2000	
PB-Free Assembly I 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 I Package Thickness ≥ 2.5 mm	250 °C	245 °C	245 °C	

refer to IPC/ JEDEC J-STD-020E

ROHELANT REACT HALOGEN		CHECKED RoD	REVISION 001.001	DATE (YYYY-MM-DD) 2020-05-11	GENERAL TOLERANCE DIN ISO 2768-1m		PROJECTION METHOD	
		DESCRIPTION	WE-TVSP Power TVS Diode					
		Würth Elektronik eiSos GmbH & Co. KG EMC & Inductive Solutions Max-Eyth-Str. 1 74638 Waldenburg Germany					ORDER CODE	5211
	einiany Tel. +49 (0) 79 42 945 - 0 www.we-online.com eiSos@we-online.com	size/type D0-214AA			BUSINESS UNIT eiSos	status Valid		

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. Morec & 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), train control, signal, disaster prevention, medical, public information network etc.. Wurth Elektronik elSos GmbH & Co KG must be informed about the intent of such usage before the design-in stage. In addition, sufficient relia must be performed on every electronic component which is used in electrical circuits that require high safety and reliability functions or performance.

General:

- This electronic component is designed and developed with the intention for use in general electronic equipment
- Würth Elektronik must be asked for a written approval (following the certain PPAP procedure) before incorporating the components into any equipment in the field 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 is designed and manufactured to be used within the datasheets specified values. If the usage and operation conditions
 specified in the datasheet are not met, the wire insulation may be damaged or dissolved.
- Do not drop or impact the components, the component may be damaged
- Würth Elektronik products are qualified according to international standards, which are listed in each product reliability report. Würth
 Elektronik does not warrant any customer qualified product characteristics beyond Würth Elektroniks' specifications, for its validity and
 sustainability over time.
- The responsibility for the applicability of the customer specific products and use in a particular customer design is always within the authority of the customer. All technical specifications for standard products also apply to customer specific products.

Product specific:

Soldering:

- The solder profile must comply with the technical product specifications. 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 body, the marking or the plating. Washing agent may have a negative effect on the long term functionality of the product.

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 component body, pins or termination. Expansion could damage the
components. We recommend a manual inspection after potting to avoid these effects.

- Do not expose the components to direct sunlight.
- The storage conditions in the original packaging are defined according to DIN EN 61760-2.
- The storage conditions stated in the original packaging apply to the storage time and not to the transportation time

Handling:

- · Violation of the technical product specifications such as exceeding the nominal rated current will void the warranty
- The TVSP Diode is not designed for voltage stabilization with continuous power dissipation.
- The exposure of steam, saline spray, atmosphere with reduced oxygen content, corrosive gases, rain or condensat shall be prohibited.
- Signals operated continuously with a high ratio of direct-current voltage might have an influence on the product life

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

		CHECKED RoD	REVISION 001.001	DATE (YYYY-MM-DD) 2020-05-11	general tolerance DIN ISO 2768-1m		PROJECTION METHOD
		WE-TVSP Power TVS Diode					
	Würth Elektronik eiSos GmbH & Co. KG EMC & Inductive Solutions Max-Eyth-St. 1 74638 Waldenburg Germany Tel. +49 (D) 79 42 945 - 0 www.we-online.com eiSos@we-online.com					ORDER CODE	5211(
		size/type DO-214AA			BUSINESS UNIT eiSos	status Valid	

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. Morec & Co K products are neither designed on intended for use in areas such as military, aerospace, eviation, nuclear control, stransportation (automotive control, transportation signal, disaster prevention, medical, public information tectors or performance.

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.

available. Therefore it needs to be verified with the field sales engineer or the internal sales person in charge about the availability expectancy before or when the product for application design-in disposal is considered. The approach name 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, develor well as models or templates that are subject to copyright, patent or commercial protection supplied to the customer will Elektronik eiSos GmbH & Co. KG does not warrant or represent that any licens implied, is granted under any patent right, copyright, mask work right, or other intellectual property right relating to any 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 Elektronik eiSos Group", last version available at www.we-online.com.

Rohs Reach Halden		CHECKED RoD	REVISION 001.001	DATE (YYYY-MM-DD) 2020-05-11	GENERAL TOLERANCE DIN ISO 2768-1m		PROJECTIO
					do		
O_	Würth Elektronik eiSos GmbH & Co. KG		SP PUW	er TVS Dio	ue	ORDER CODE	
	EMC & Inductive Solutions Max-Eyth-Str. 1 74638 Waldenburg Germanv					824	
	elSos@we-online.com	SIZE/TYPE		BUSINESS UNIT	STATUS		
		D0-214AA			eiSos	Valid	

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. More & Co K products are neither designed nor intended for use in areas such as military, aerospace, availation, nuclear control, stainance, trainsportation signal, disaster prevention, medical, public information network etc.. Worth Elektronik eSos GmbH & Co KG must be informed about the intent of such usage before the design-in stage. In addition, sufficient relia must be performed on every electronic component which is used in electrical circuits leady and reliability standard.

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for ESD Suppressors / TVS Diodes category:

Click to view products by Wurth manufacturer:

Other Similar products are found below :

NTE4902 P4SMAJ15A P4SMAJ26A SMAJ400CA-TP TGL34-47CA ESDAULC45-1BF4 SM1605E3/TR13 SMF20A-TP P4SMAJ12A CPDUR24V-HF CPDQC5V0USP-HF CPDQC5V0-HF MPLAD30KP45CAE3 MMBZ27VCLQ-7-F MMAD1108/TR13 MPLAD30KP24A ACPDQC5V0R-HF DFLT170A-7 NTE4900 NTE4926 NTE4938 SMF22A-TP SMF12A-TP SLVU2.8-TP SMLJ6.5CA-TP SMAJ6.5CA-TP MMAD1108E3/TR13 D5V0M1U2LP3-7 SMAJ400A-TP AOZ8811DT-03 AOZ8831DI-05 AOZ8831DT-03 SMAJ188CA 3SMC33CA BK CPDQC3V3C-HF CPDQC12VE-HF MPLAD30KP170CA 82357120100 5.0SMLJ15CA-TP 5KP18A-TP P6KE8.2A-TP MPLAD30KP43CAE3 SMAJ43A-TP D5V0F6U8LP33-7 TVS5501V10MUT5G 5.0SMLJ24CA-TP SMAJ110CA-TP MPLAD15KP75CAE3 MMAD1103e3/TR13 DFLT40AQ-7