WS4A020065K

Silicon Carbide Schottky Diode

V_{RRM}	=	650	V
I_F (T_C = 135°C)	=	36	A**
Q_C	=	50	nC**

Features

- New Thin Wafer Technology
- Low Forward Voltage Drop (V_F)
- Zero Reverse Recovery Current
- Zero Forward Recovery Voltage
- Positive Temperature Coefficient on V_F
- Temperature-independent Switching

Benefits

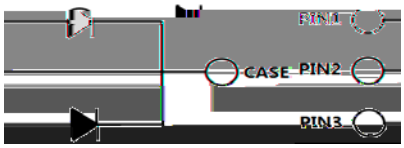
- Replace Bipolar with Unipolar Device
- Reduction of Heat Sink Size
- Parallel Devices Without Thermal Runaway
- Essentially No Switching Losses

Applications

- Switch Mode Power Supplies
- Uninterruptible Power Supplies
- Motor drive, PV Inverter, Wind Power Station

Package





Part Number	Package	Marking
WS4A020065K	TO-247-3	WS4A020065K

Maximum Ratings

Symbol



Electrical Characteristics (Per leg)

Symbol	Parameter	Typ.



Notes

1) Before using our products, please contact our marketing managers and get the latest specifications.

2) Ongoing efforts are being made to improve the reliability and quality of the products by CETC, but the semiconductors can malfunction due to various factors. Therefore, in order to prevent artificial damage or fire arising from failure, please take safety measures such as complying with the derating characteristics, implementing redundant and fire prevention designs, and utilizing backups and fail-safe procedures. CETC doesn't have responsibility for any damages arising from the use of our products beyond the rating specified by CETC.

3) All the information contained in this document, such as the examples of application circuits, circuit constants, is provided only to illustrate the standard usage and operations of the products. The other relevant conditions must be taken into consideration when designing circuits for mass production.

4) The information specified in this document is intended only to show the typical functions and examples of application circuits for the products. CETC does not grant you, explicitly or implicitly, any license to use or exercise intellectual property or other rights held by CETC or any other parties. CETC shall have no responsibility whatsoever for any dispute arising from the use of such technical information.

5) The products specified in this document are not designed to be radiation tolerant.

6) For use of our products in applications requiring a high degree of reliability (as exemplified below), please contact and consult with a CETC representative: transportation equipment (cars, ships, trains, etc.), primary communication equipment, traffic lights, fire/crime prevention, safety equipment, medical systems, and power transmission systems.

7) Do not use our products in applications requiring extremely high reliability, such as aerospace equipment, nuclear power control systems and submarine repeaters.

8) CETC shall not be responsible for any damages or injury caused by non-compliance with the recommended usage conditions and specifications contained in this document.

9) CETC has used reasonable care to ensure the accuracy of the information contained in this document. However, CETC does not guarantee the information contained in this document is totally correct, and CETC doesn't have responsibility for any damages arising from any inaccuracy or misprint of such information.

10) Please use the products in accordance with any applicable environmental laws and regulations, such as the RoHS Directive. For more details, including RoHS compatibility, please contact a CETC marketing manager. CETC doesn't have responsibility for any damages or losses arising from disobedience to any relevant laws or regulations.

11) When providing our products and technologies contained in this document to other countries or regions, you must comply w the prncedu* [(r)-12(e)24(s)23(and)7(n p)27(r)-12(ov)23(i)-18(s)23(i)-18(ons-14(s7(uc)-3(t)23(i)pu)8( )27(l)-)27(t)-14(e(an

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