WS4A010120D

Silicon Carbide Schottky Diode

G4 MPS Technology

V_{RRM}	=	1200	V
I_F ($T_C \leq 130$)	=	14	A
Q_C	=	41	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



TO-247-2



Part Number	Package	Marking
WS4A010120D	TO-247-2	WS4A010120D

Maximum Ratings

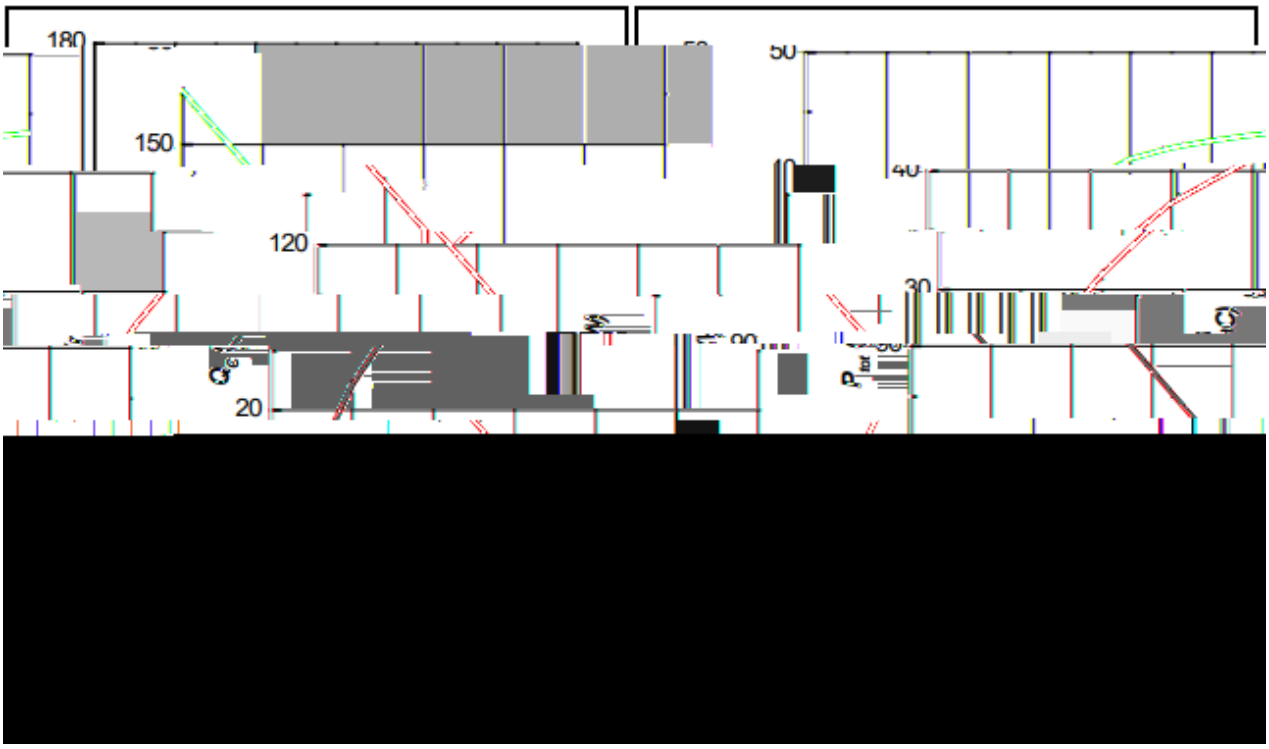
Symbol	Parameter	Value	Unit	Test Conditions	Note

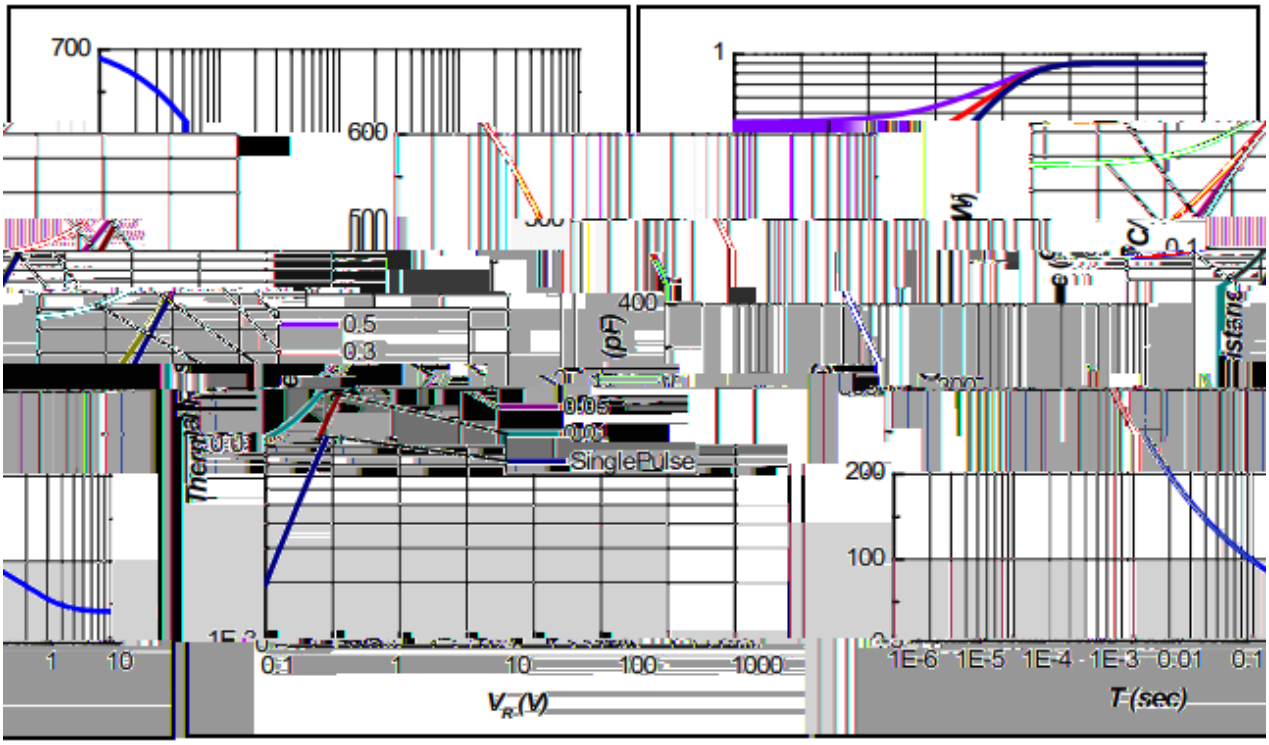
Electrical Characteristics

Thermal Characteristics

Symbol	Parameter	Typ.	Unit	Note

Typical Performance







Package - Tc -034

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.

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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.

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10) Please use the products in accordance with any applicable environmental laws and regulations, such as the RoHS Directiv65(en)totf(i)-1884(fer)-39(4 Tw 9.121tf(i)27(t)2p EM44(h)27J ET Q 0 Td o(otf(i)7(i)-1711 T 0 Td (i)-18(-41(h 27(r)-,(i)27(tanc)-3)-

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