

S3M008120V1K-A



TriQSiC™1200V Silicon Carbide Power MOSFET G3

Features

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Benefits

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Part number Die size Å

Applications

-
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Table 1 Key performance and package parameters

S3M008120V1K-A



1200V SiC Power MOSFET

Table of contents

Table of contents

Features	1
Benefits	1
Applications	1
Table of contents	2
1 Maximum ratings	3
2 Electrical characteristics	4
2.1 Static characteristics	4
2.2 Dynamic characteristics	4
2.3 Switching characteristics	5
3 Electrical characteristic diagrams	6
4 Mechanical parameters	9
4.1 Dimensions and metallization	9
4.2 Layout	9
5 Test conditions	10
Revision history	11
Attention	11

S3M008120V1K-A



1200V SiC Power MOSFET

1 Maximum ratings

Table 2 Maximum rating

Symbol	Parameter	Value	Unit	Test Conditions	Note
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S3M008120V1K-A



1200V SiC Power MOSFET

2 Electrical characteristics

2.1 Static characteristics

Table 4 Static characteristics

Symbol	Parameter	Min.	Typ.	Max.	Unit	Test Conditions	Note

2.2 Dynamic characteristics

Table 5 Dynamic characteristics

Symbol	Parameter	Min.	Typ.	Max.	Unit	Test Conditions	Note

S3M008120V1K-A



1200V SiC Power MOSFET

2.3 Switching characteristics

Table 6 **Dynamic characteristics(**

Symbol	Parameter	Min.	Typ.	Max.	Unit	Test Conditions	Note

Table 7 Body diode characteristics(

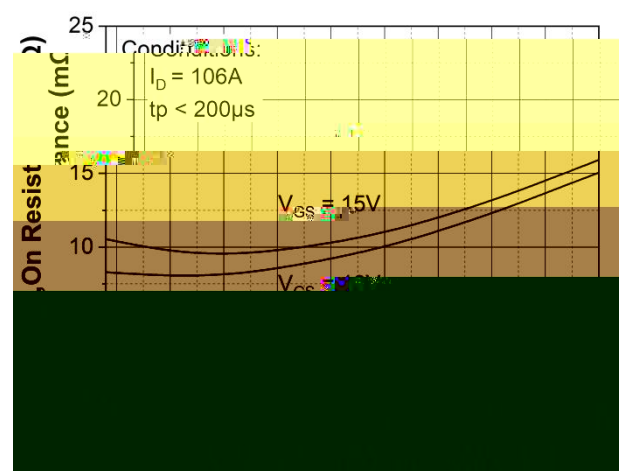
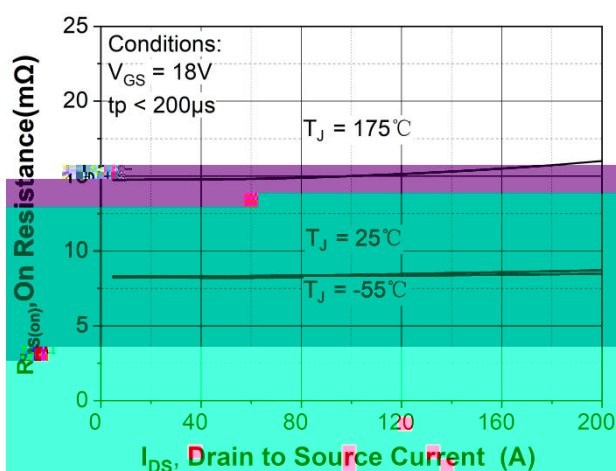
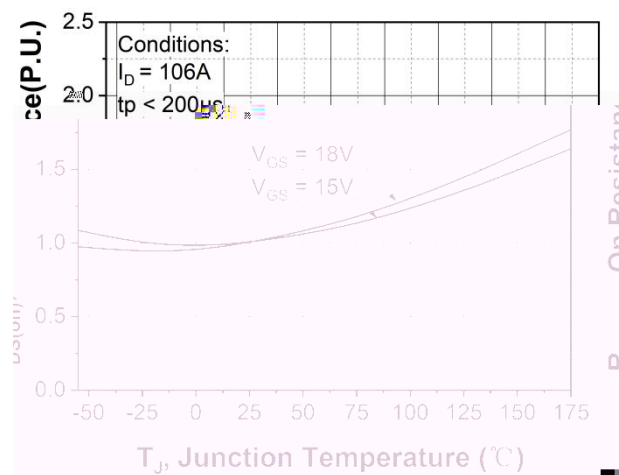
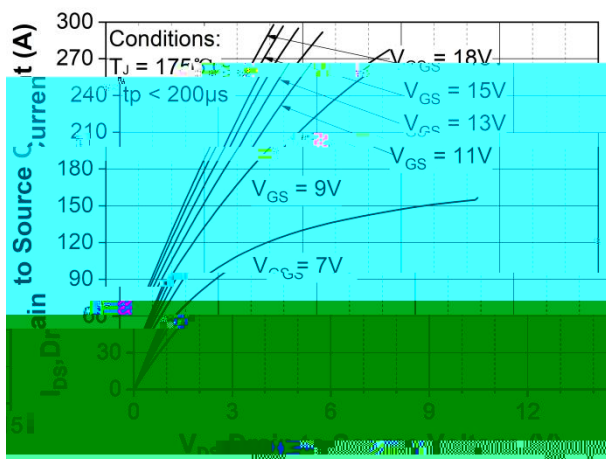
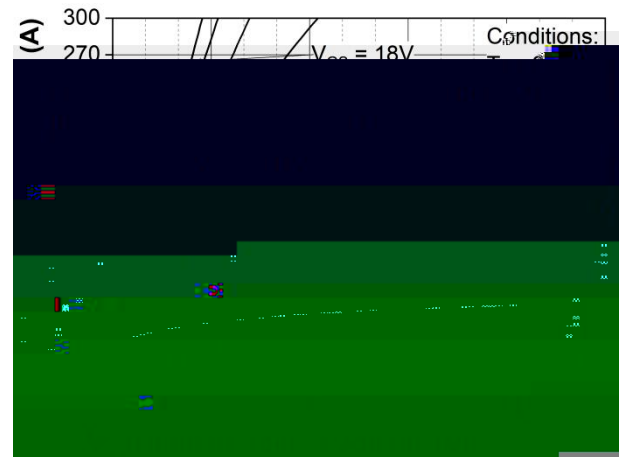
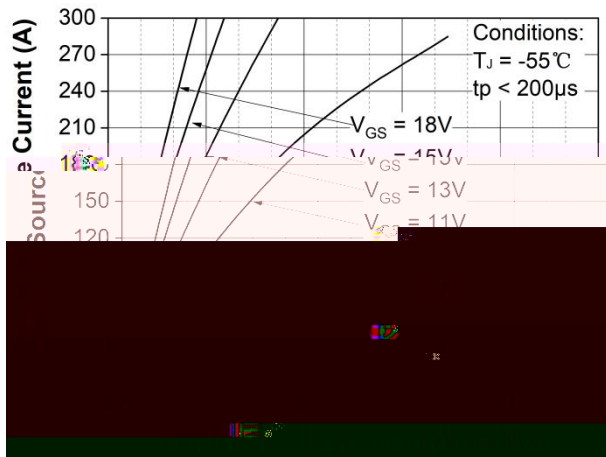
Symbol	Parameter	Min.	Typ.	Max.	Unit	Test Conditions	Note

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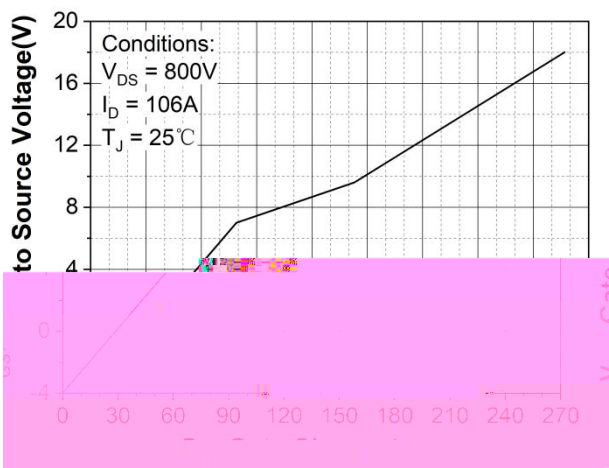
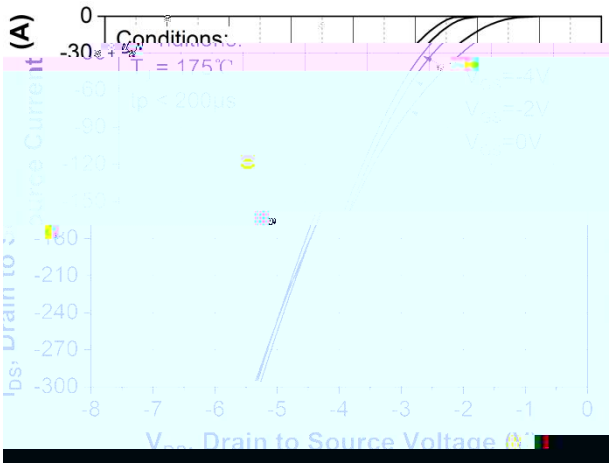
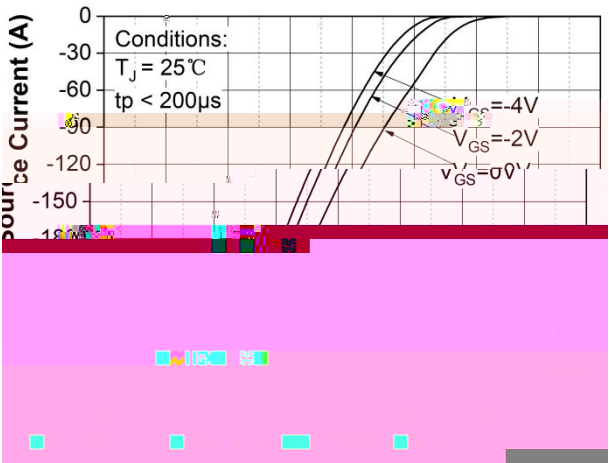
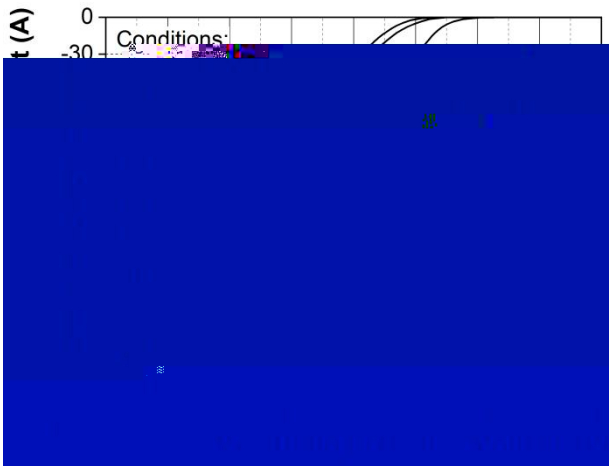
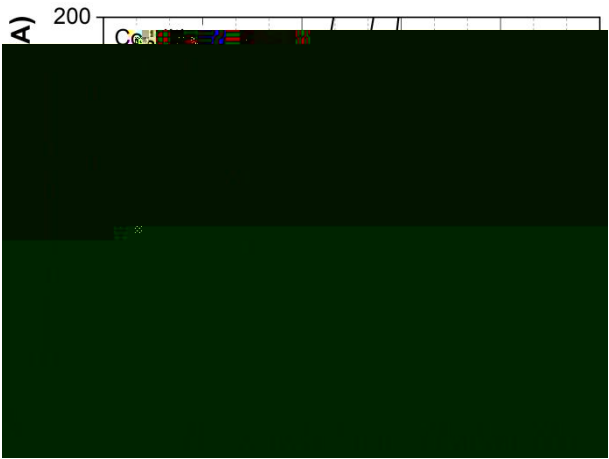


1200V SiC Power MOSFET

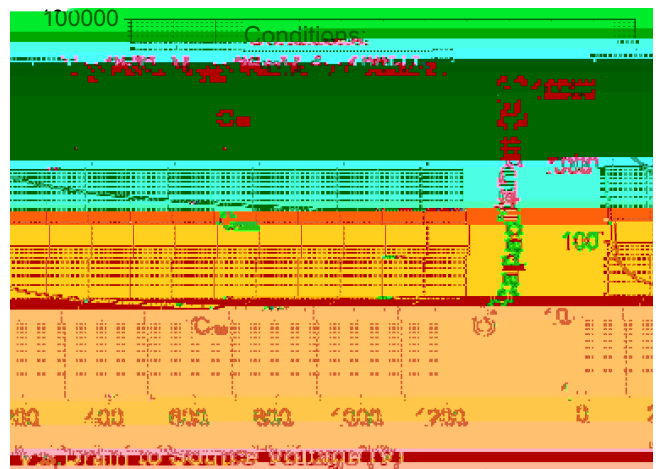
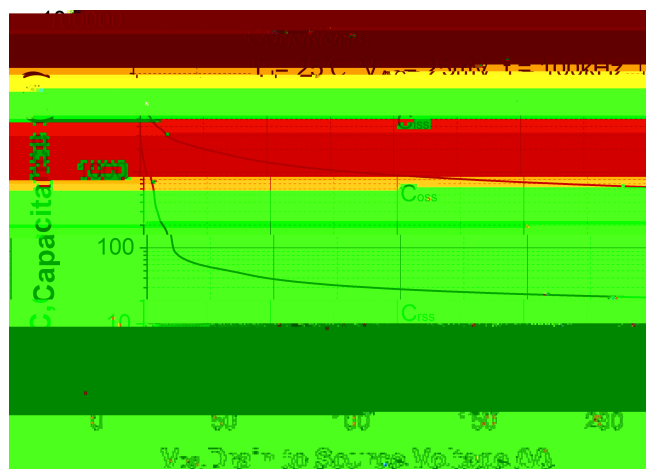
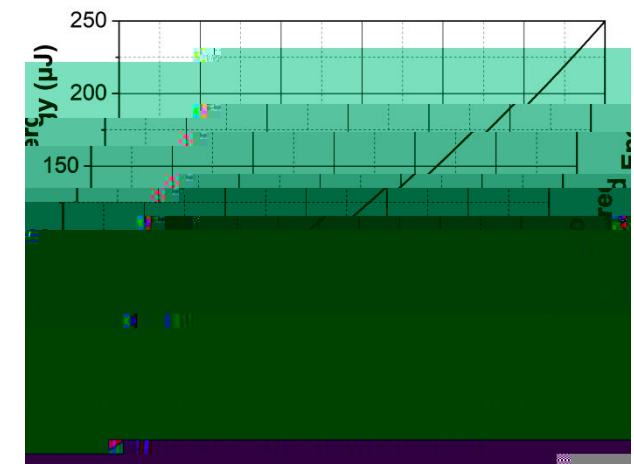
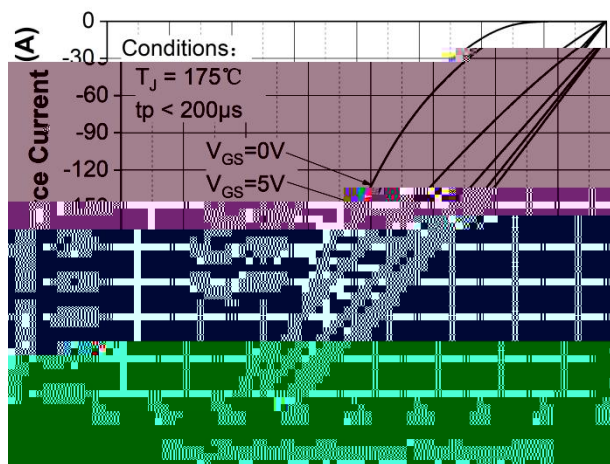
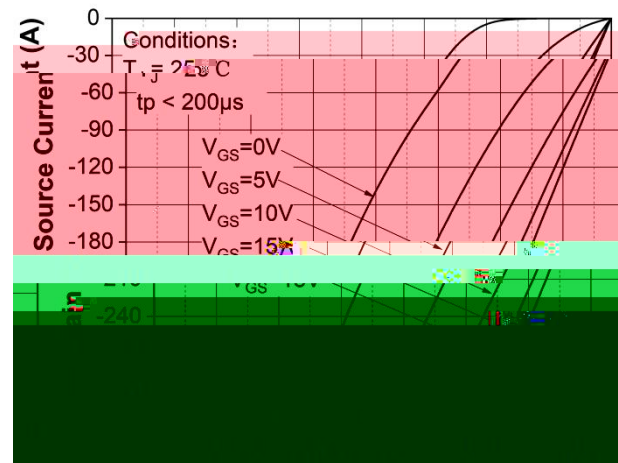
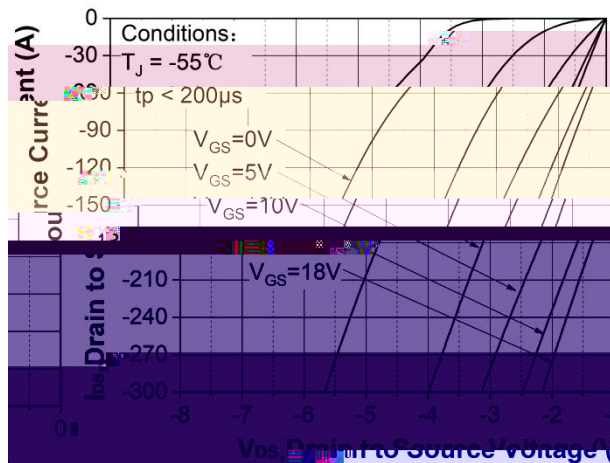
3 Electrical characteristic diagrams



S3M008120V1K-A



S3M008120V1K-A



S3M008120V1K-A



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4 Mechanical parameters

4.1 Dimensions and metallization

Parameter	Typical value	Unit	Metallization
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S3M008120V1K-A

S3M008120V1K-A

1200V SiC Power MOSFET



Revision history

Document version	Date of release	Document stage	Description of changes
V01_00	2026-06-26	Final	

Attention

RoHS compliance

REACH compliance

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