

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

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1 Maximum ratings

Table 2 Maximum rating

Symbol	Parameter	Value	Unit	Test Conditions	Note
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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

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2.3 Switching characteristics

Table 6 Dynamic characteristics(

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

Table 7 Body diode characteristics(

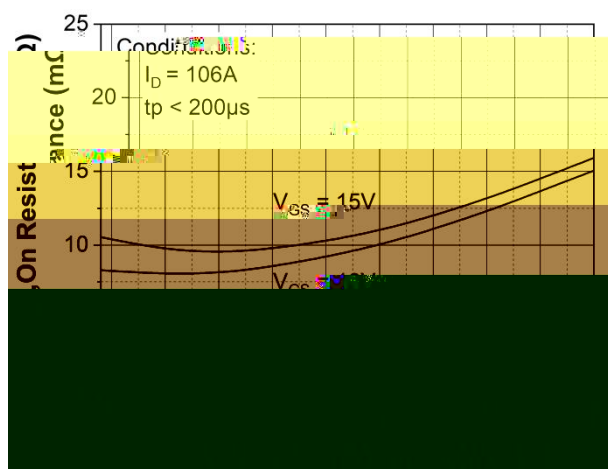
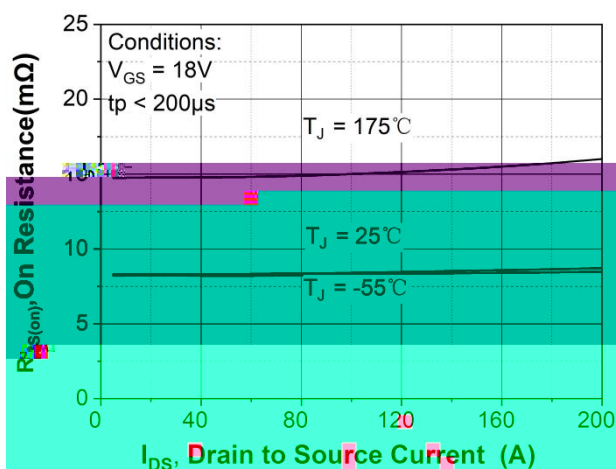
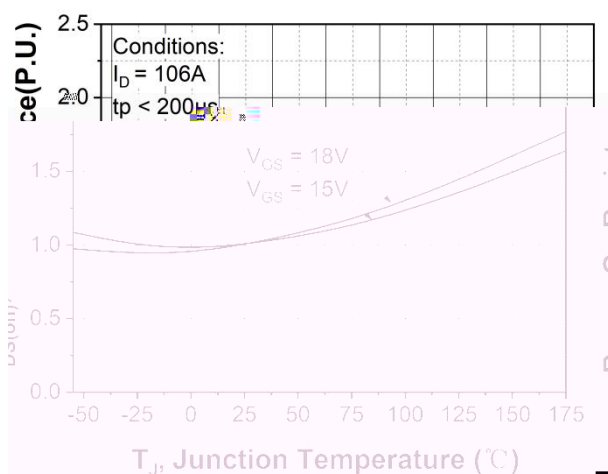
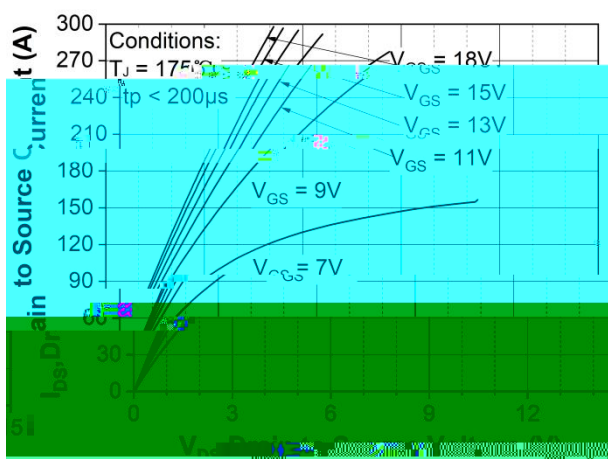
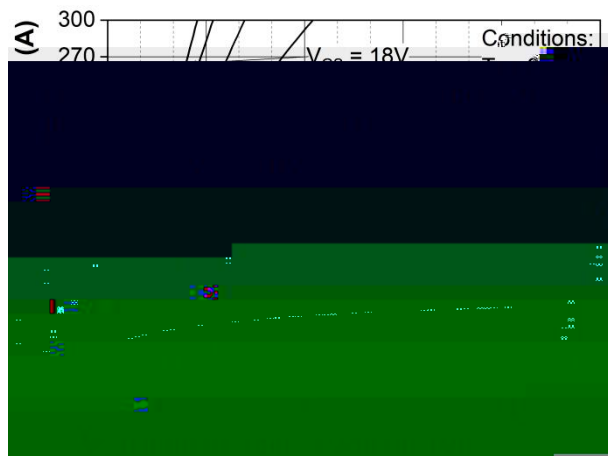
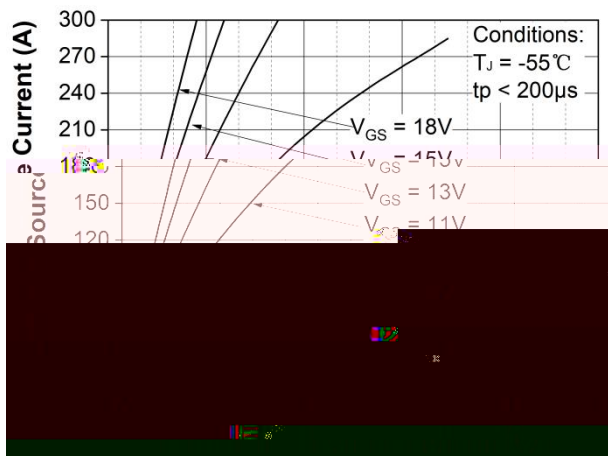
Symbol	Parameter	Min.	Typ.	Max.	Unit	Test Conditions	Note

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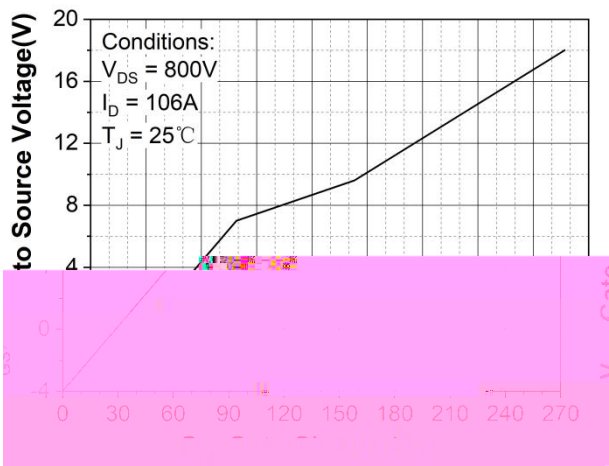
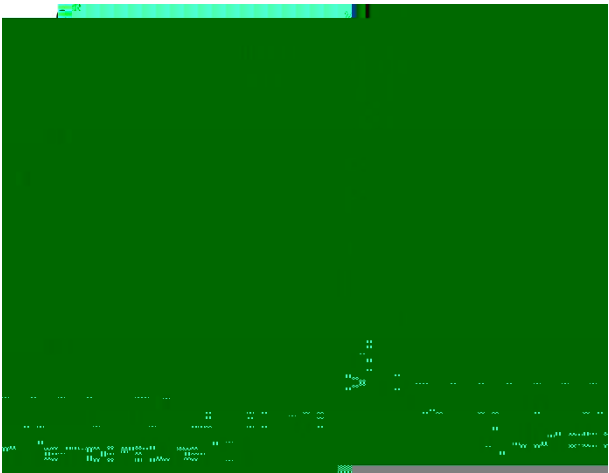
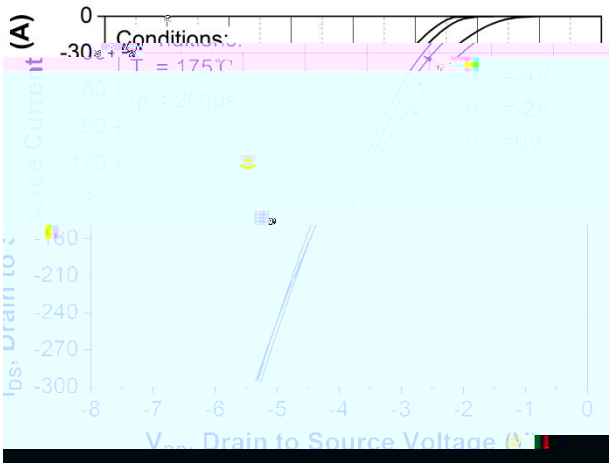
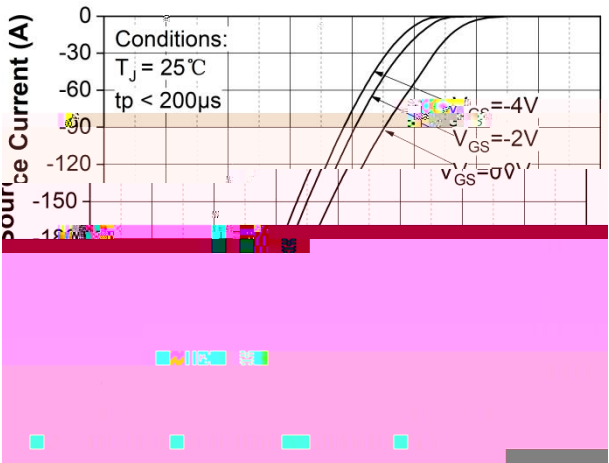
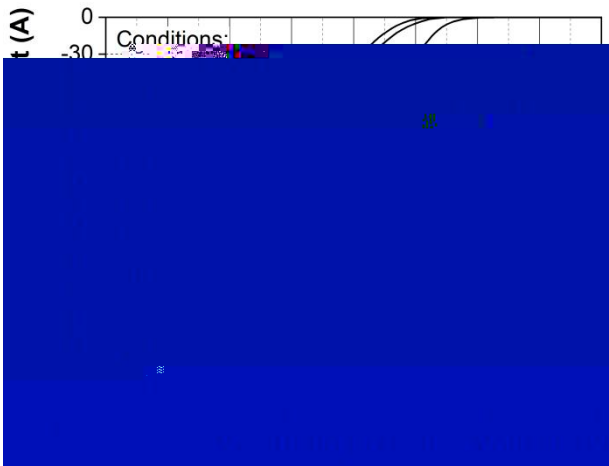
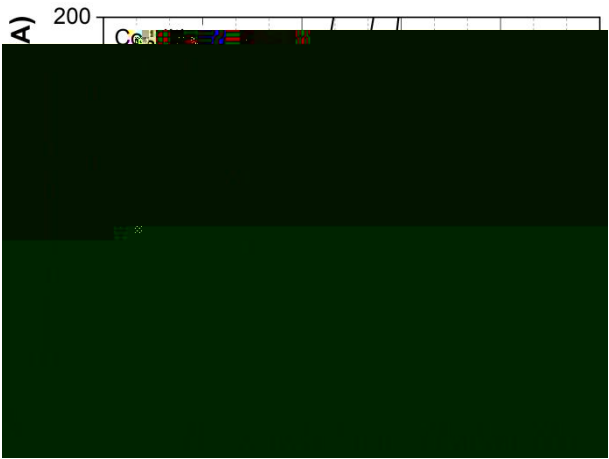


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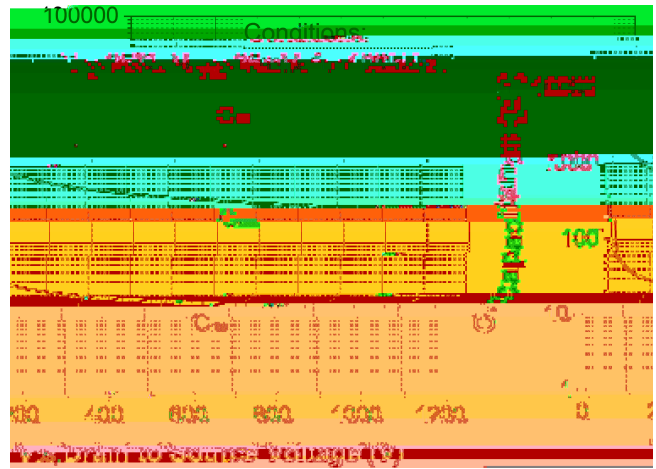
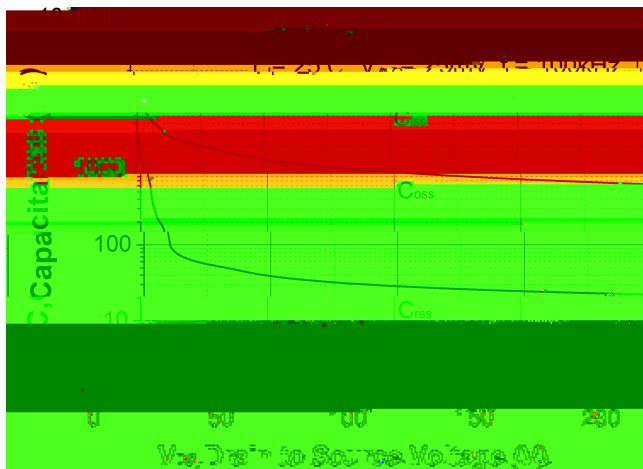
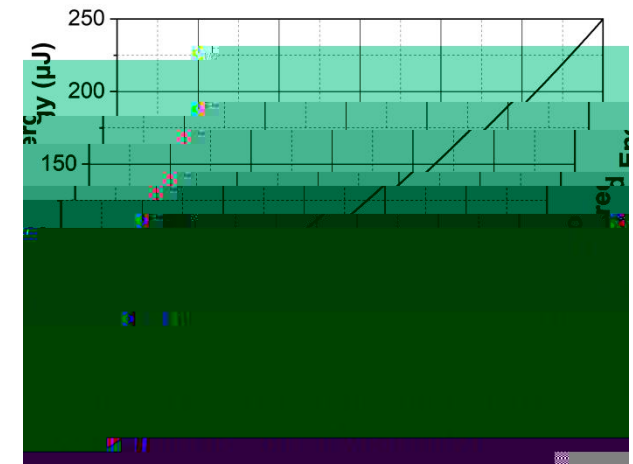
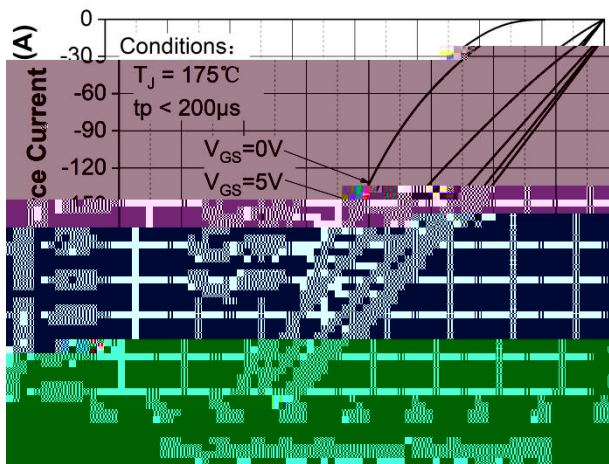
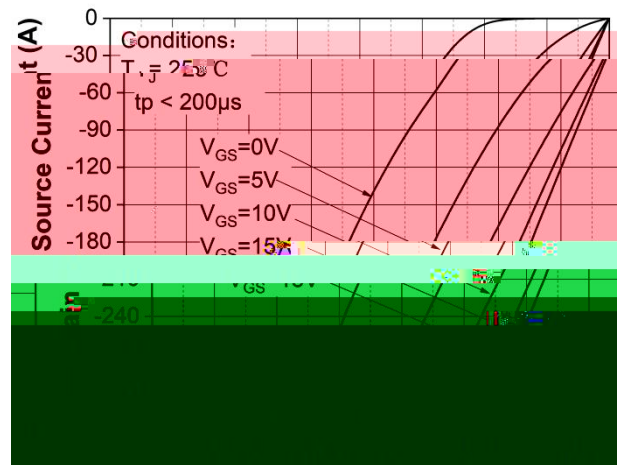
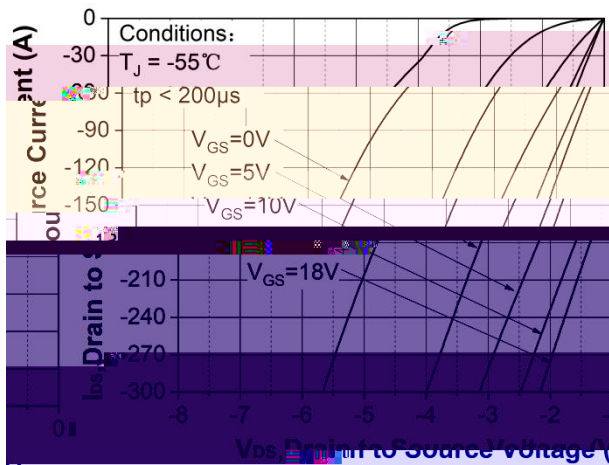
3 Electrical characteristic diagrams



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4 Mechanical parameters

4.1 Dimensions and metallization

Parameter	Typical value	Unit	Metallization
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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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