S3M013120BK-A

TriQSiC™1200V Silicon Carbide Power MOSFET G3

Features

-
-
-
-

S3M013120BK

1 Maximum ratings

Table 2 Maximum rating

Symbol	Parameter	Value	Unit	Test Conditions	Note
				≤	

2 Electrical characteristics

2.1 Static characteristics

Table 4 Static characteristics

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

2.3 Switching characteristics

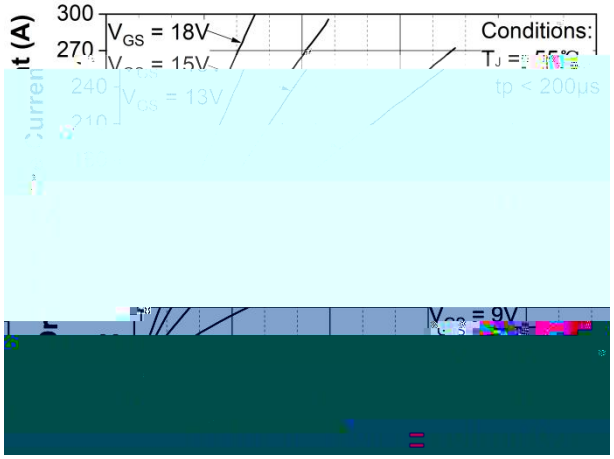
Table 6 Dynamic characteristics(

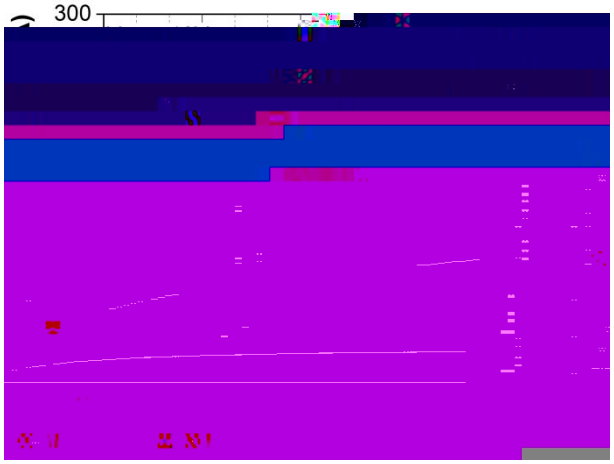
Symbol	Parameter	Min.	Typ.	Max.	Unit	Test Conditions	Note

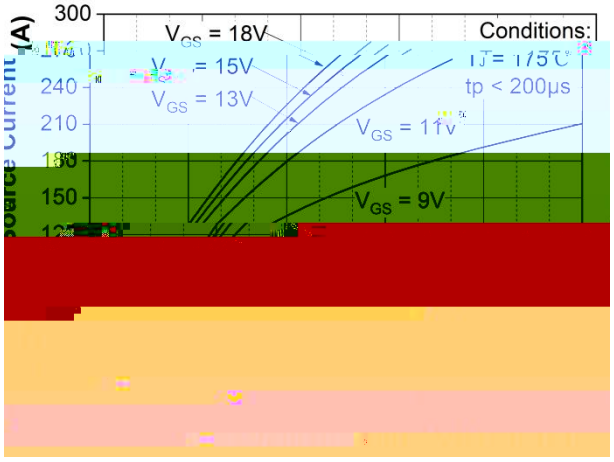
Table 7 Body diode characteristics(

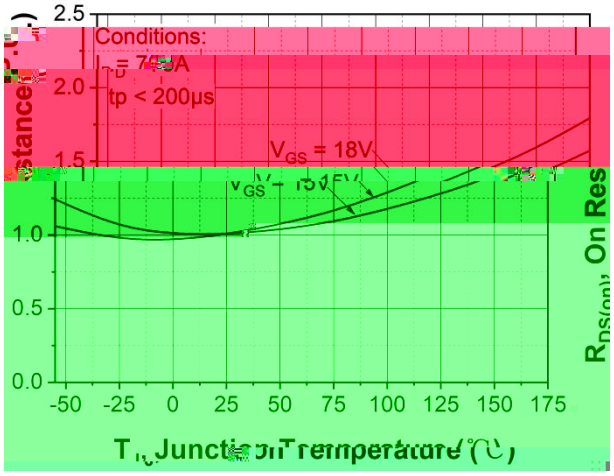
Symbol	Parameter	Min.	Typ.	Max.	Unit	Test Conditions	Note

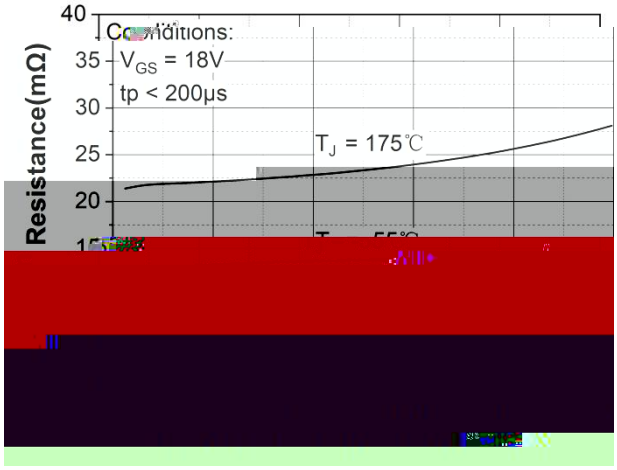
3 Electrical characteristic diagrams

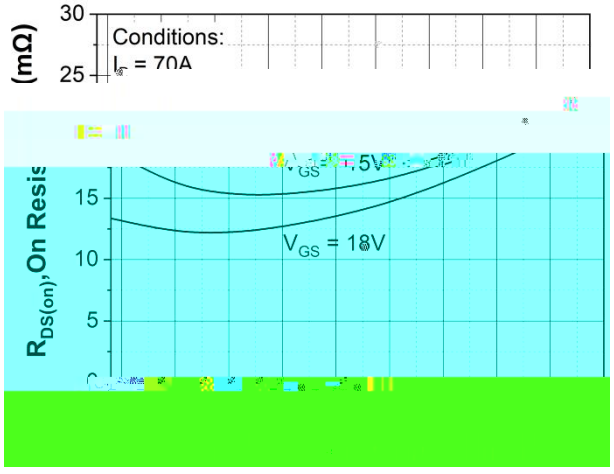








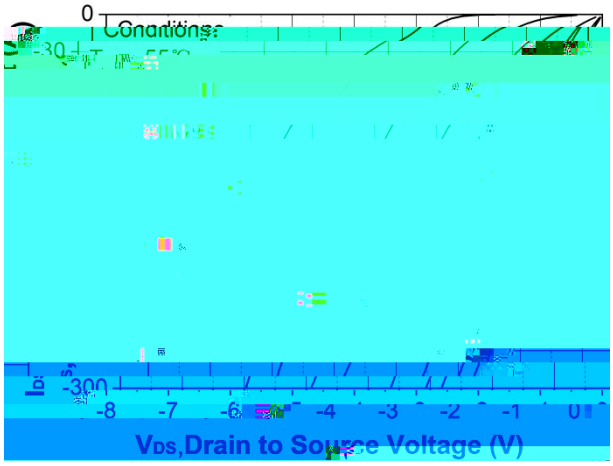


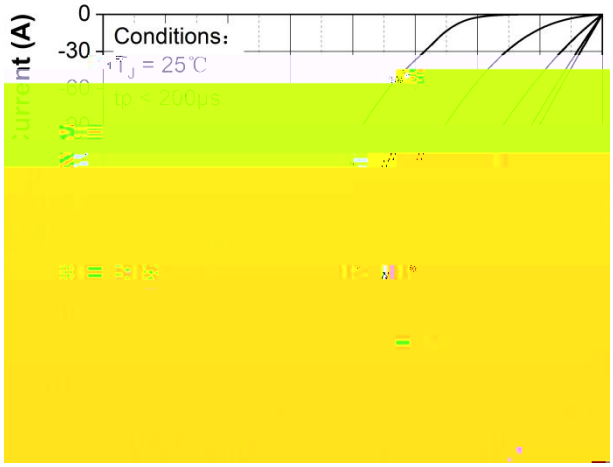


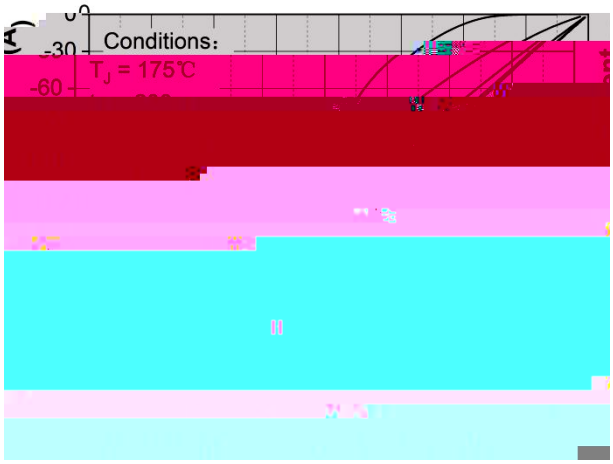
S3M013120BK-A

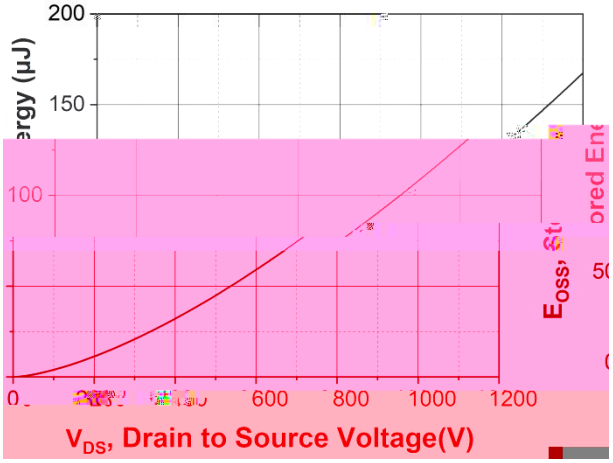
[redacted]

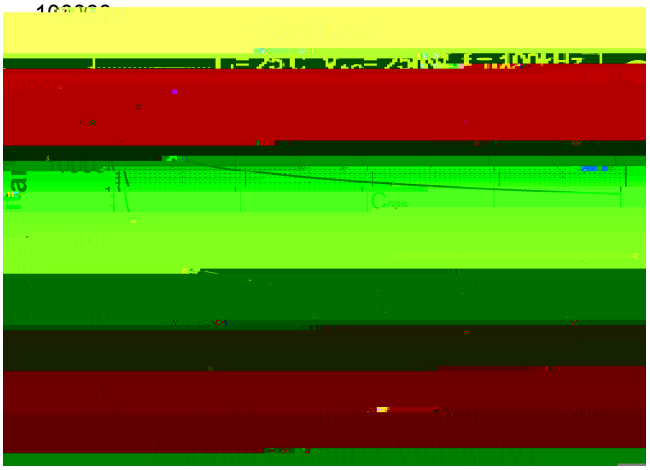
S3M013120BK-A

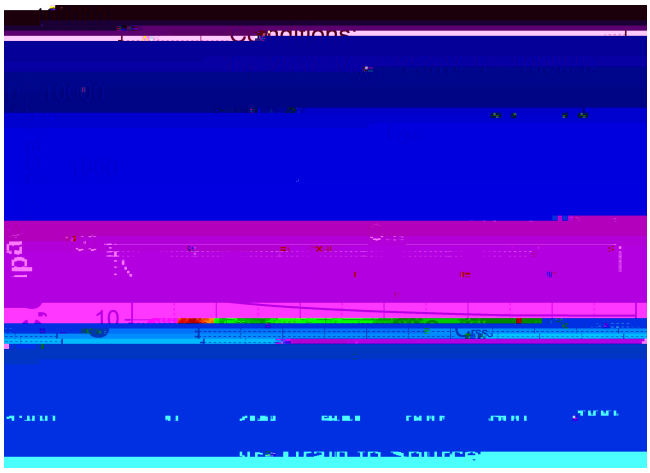








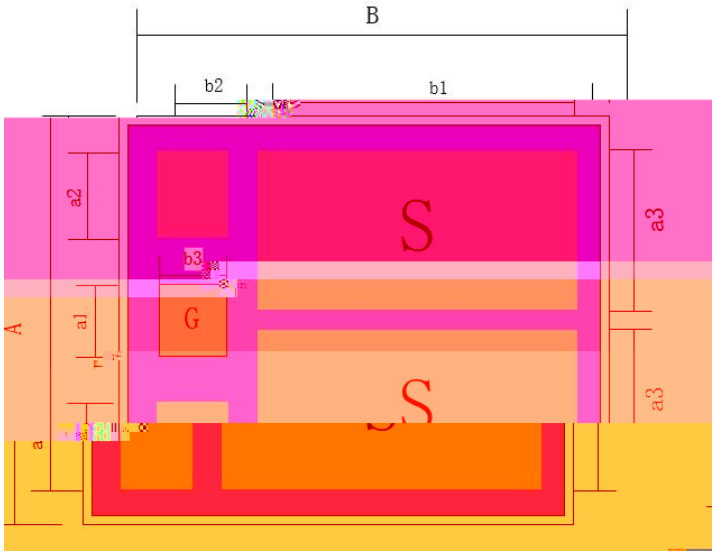




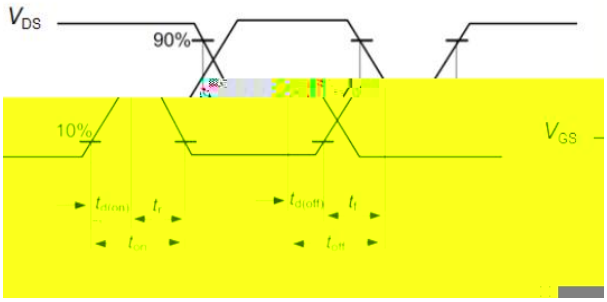
4 Mechanical parameters

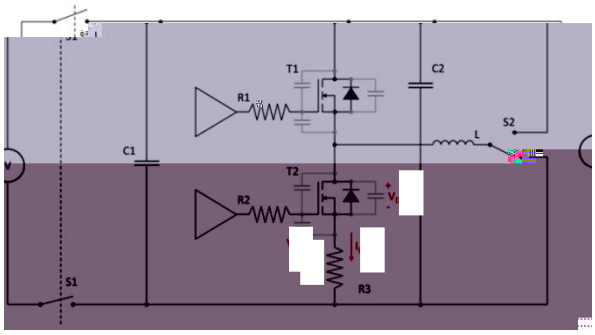
4.1 Dimensions and metallization

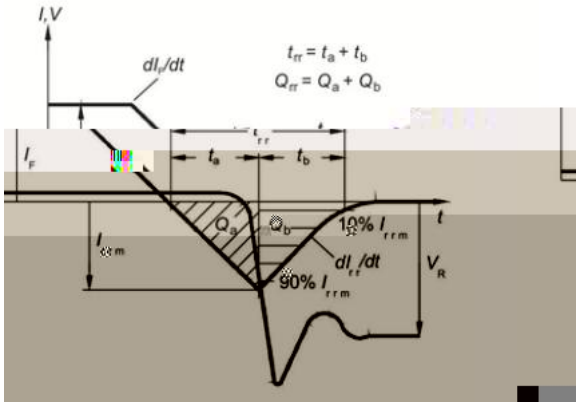
Parameter	Typical value	Unit	Metallization



5 Test conditions







S3M013120BK-A

1200V SiC Power MOSFET

Revision history

Document version	Date of release	Document stage	Description of changes
V01_00	2026-06-29	Final	——

Attention

RoHS compliance

REACH compliance

S3M013120BK-A