

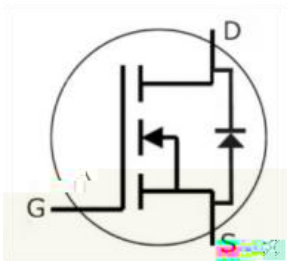
S3M007075RK-A



TriQSiC™750V Silicon Carbide Power MOSFET G3

Features

-
-
-
-
-



Benefits

-
-
-
-
-

Part number	Die size	W x L	mm

Applications

-
-
-
-

Table 1 Key performance and package parameters

Type	V _{DS}	I _{DS} ≤	R _{DS(on), typ}	T _{J,max}

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750V SiC Power MOSFET

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S3M



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750V SiC Power MOSFET

2 Electrical characteristics

2.1 Static characteristics

Table 4 Static characteristics

Symbol	Parameter	Min.	Typ.	Max.	Unit	Test Conditions	Note
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2.3 Switching characteristics

Table 6 Dynamic characteristics

[illegible]

Table 7 Body and Behavioral Characteristics

Symbol	Parameter	Value
β	Learning rate	0.001
γ	Discount factor	0.9
ϵ	Exploration rate	0.1
η	Weight decay	0.0001
λ	Temperature	1.0
μ	Mean	0.0
σ	Standard deviation	0.1
τ	Time step	1.0
θ	Angle	0.0
ϕ	Phase	0.0
ψ	Psi	0.0
ω	Frequency	1.0
κ	Curvature	1.0
ξ	Taxi	1.0
ζ	Zeta	1.0
η	Eta	1.0
θ	Theta	1.0
ι	Iota	1.0
κ	Kappa	1.0
λ	Lambda	1.0
μ	Mu	1.0
ν	Nu	1.0
ξ	Xi	1.0
$\omicron$	Omicron	1.0
π	Pi	1.0
ρ	Rho	1.0
σ	Sigma	1.0
τ	Tau	1.0
υ	Upsilon	1.0
ϕ	Phi	1.0
χ	Chi	1.0
ψ	Psi	1.0
ω	Omega	1.0
κ	Kappa	1.0
λ	Lambda	1.0
μ	Mu	1.0
ν	Nu	1.0
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ν	Nu	1.0
ξ	Xi	1.0
$\omicron$	Omicron	1.0
π	Pi	1.0
ρ	Rho	1.0
σ	Sigma	1.0
τ	Tau	1.

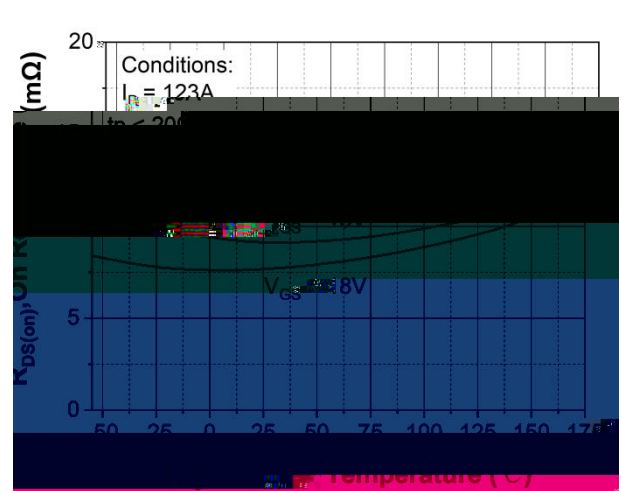
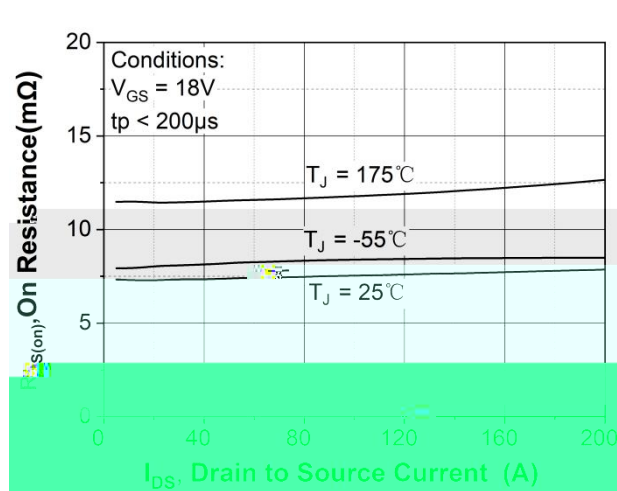
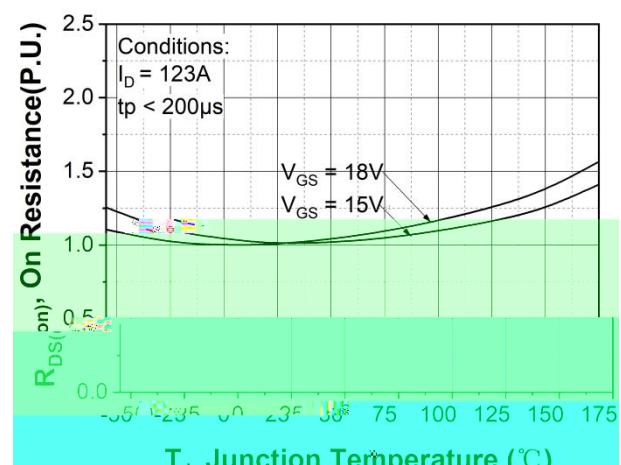
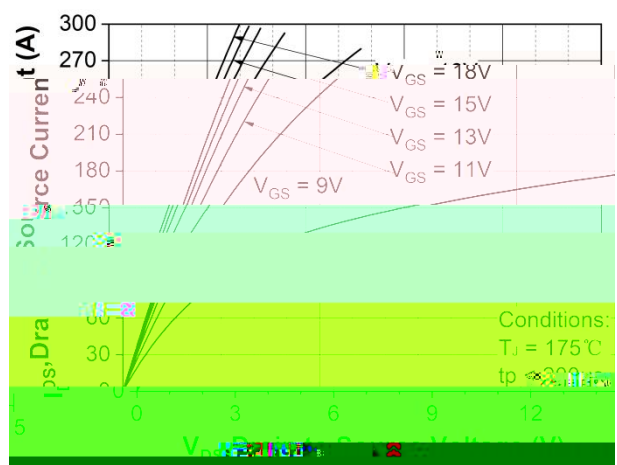
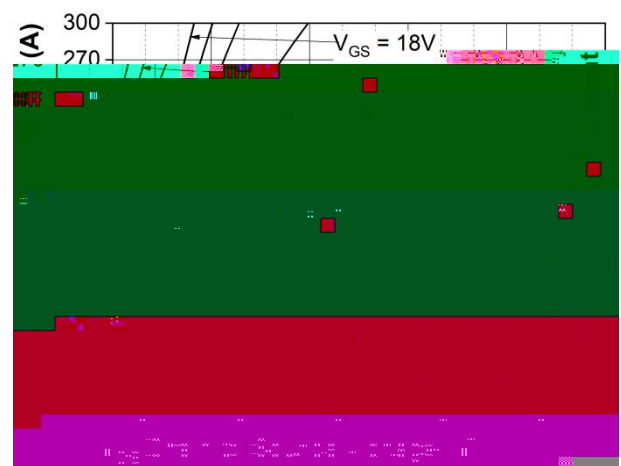
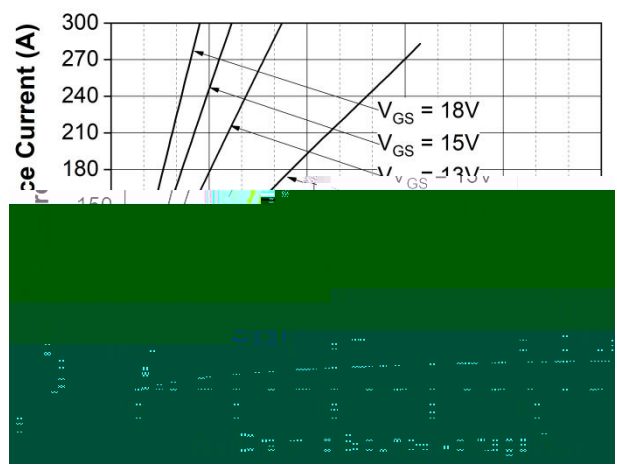
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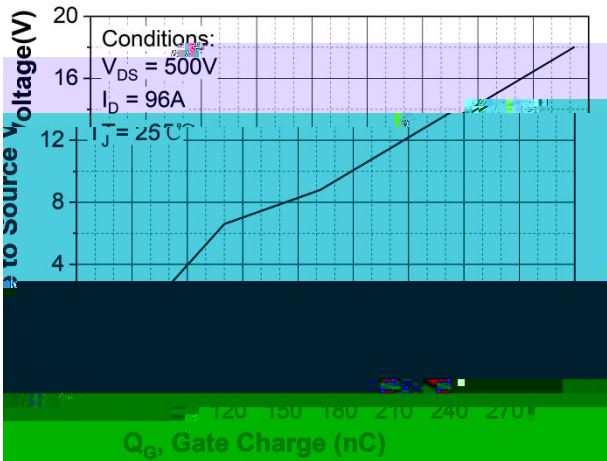
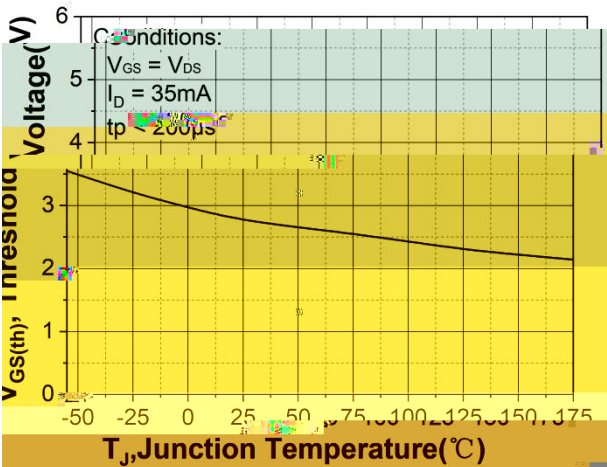
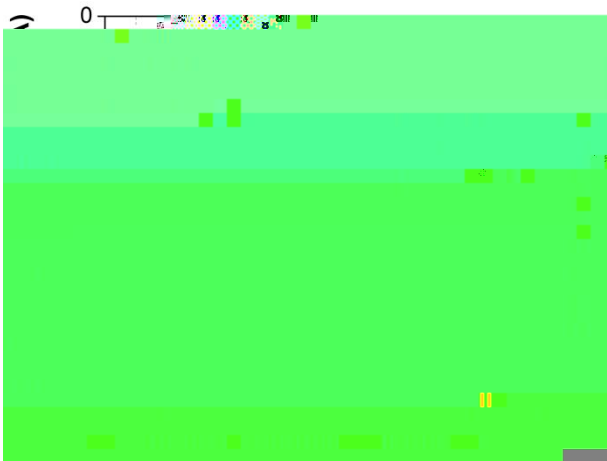
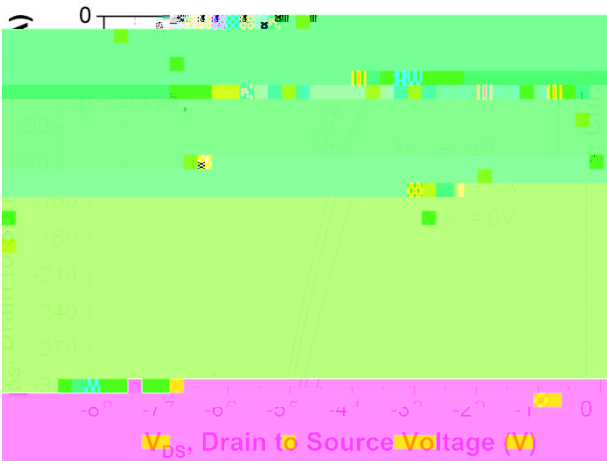
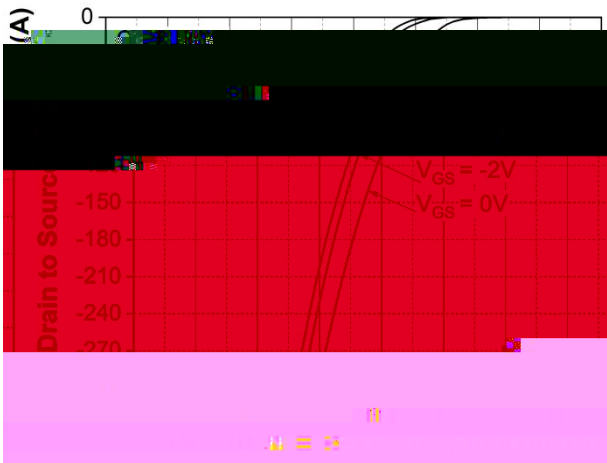
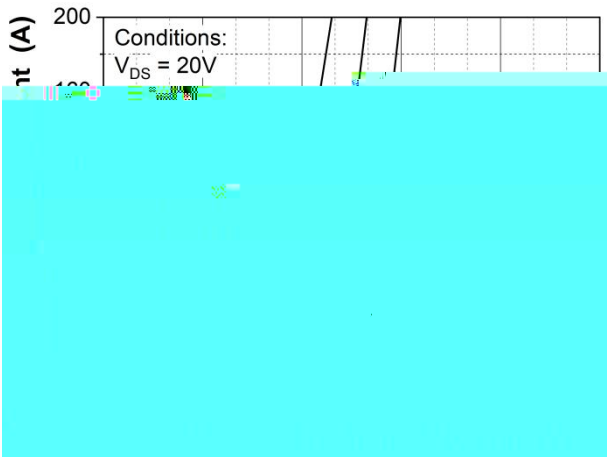


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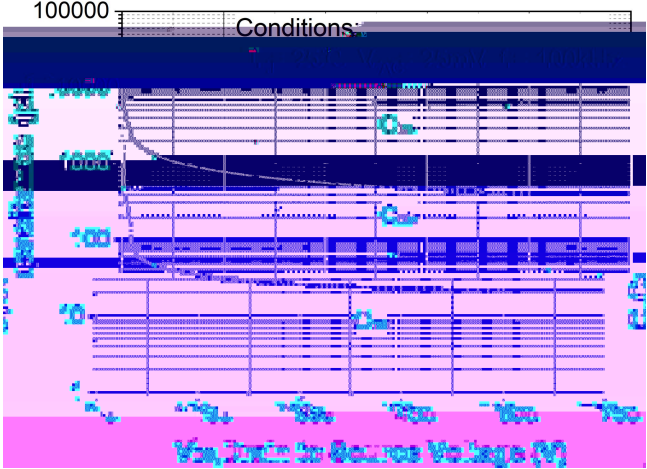
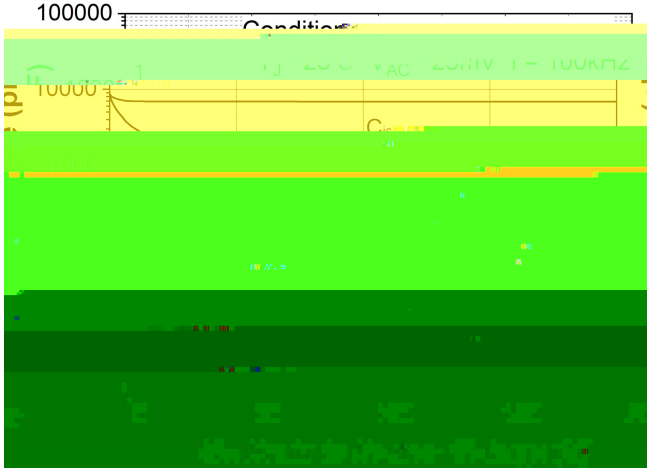
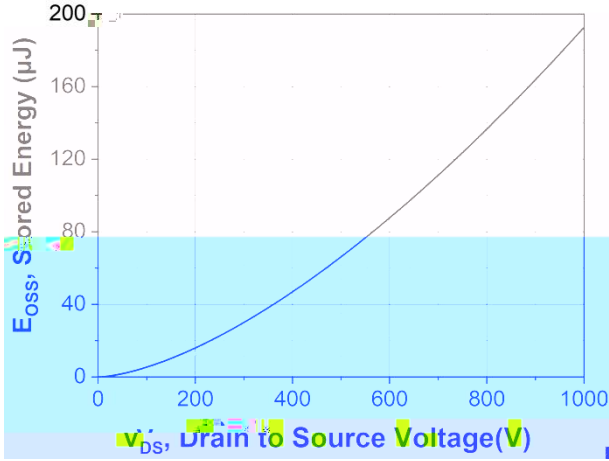
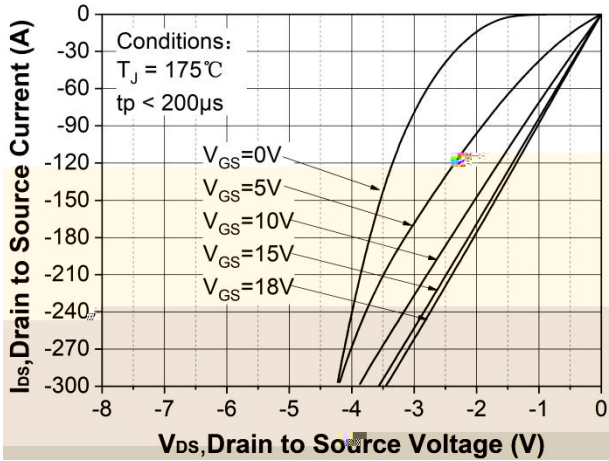
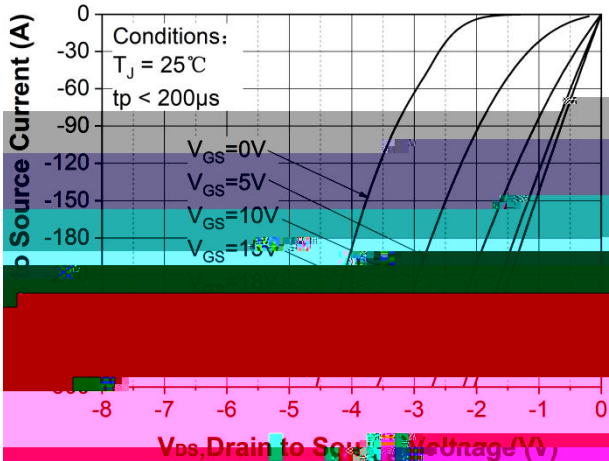
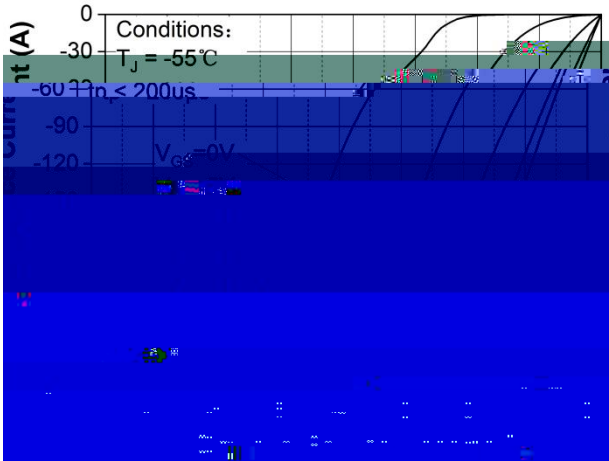
3 Electrical characteristic diagrams



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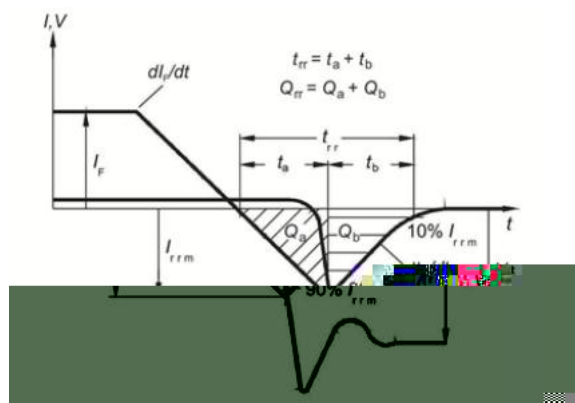
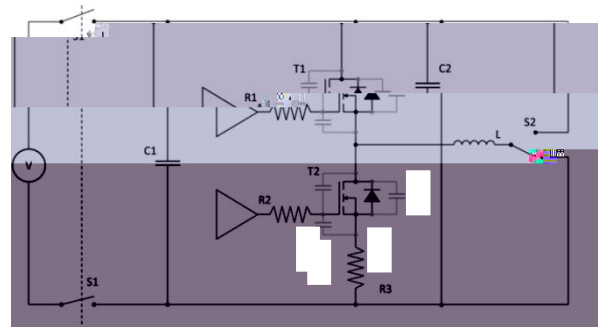
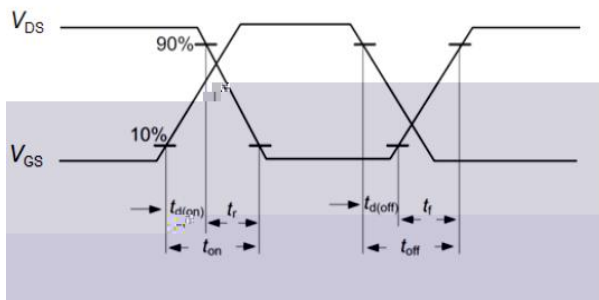


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5 Test conditions



S3M 0707 R1-A



750V S Power M

Revision history

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

Attention

RoHS compliance



REACH compliance

ROW/UK/PEP

UK-UKA

CSIGNAL

UG

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