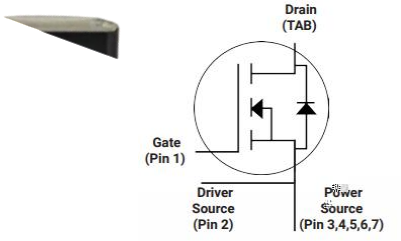
# SG2M018120J1J

**TriQSiC™ 1200V Silicon Carbide Power MOSFET G2**

## Features

- 
- 
- 
- 
- 
- 
- 




## Benefits

- 
- 
- 
- 
- 

Halogen-Free

RoHS

## Applications

- 
- 
- 
- 

**Table 1 Key performance and package parameters**

| Type | $V_{DS}$ | $I_{DS}$ | $R_{DS(on),\ typ}$ | $T_{J,max}$ | Marking | Package |
|---|---|---|---|---|---|---|
| | | | | | | |

# SG2M018120J1J

# 1 Maximum ratings

**Table 2 Maximum rating**

| Symbol | Parameter | Value | Unit | Test Conditions | Note |
|---|---|---|---|---|---|
| | | | | ≤ | |

VARV P

# 3 Electrical characteristics

## 3.1 Static characteristics

**Table 4 Static characteristics**

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

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

## 3.3 Switching characteristics

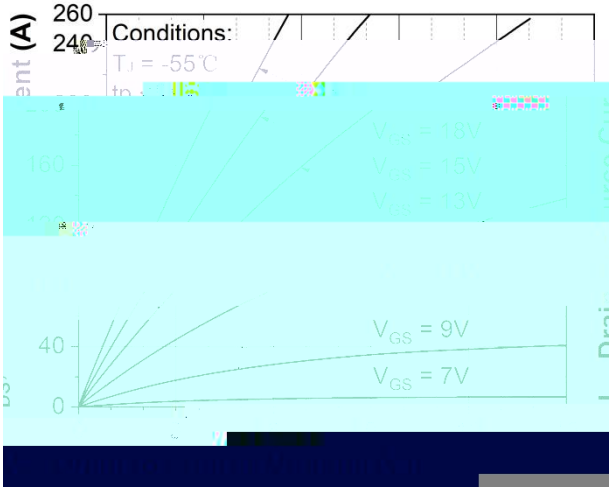
**Table 6 Dynamic characteristics**

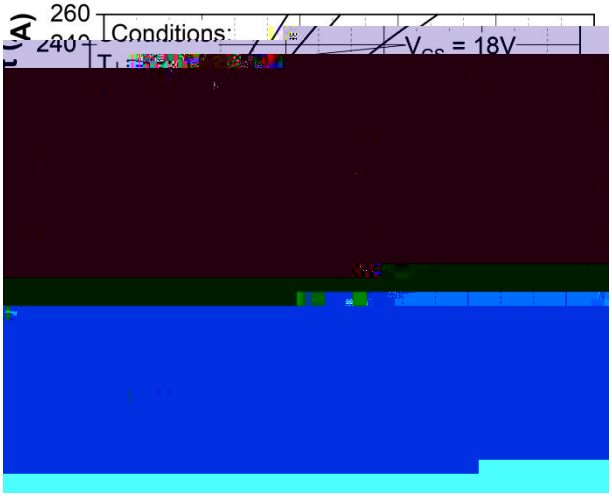
| Symbol | Parameter | Min. | Typ. | Max. | Unit | Test Conditions | Note |
|---|---|---|---|---|---|---|---|
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

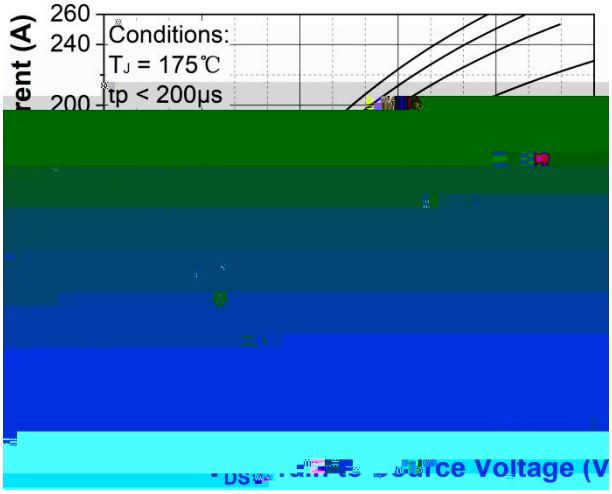
**Table 7 Body diode characteristics**

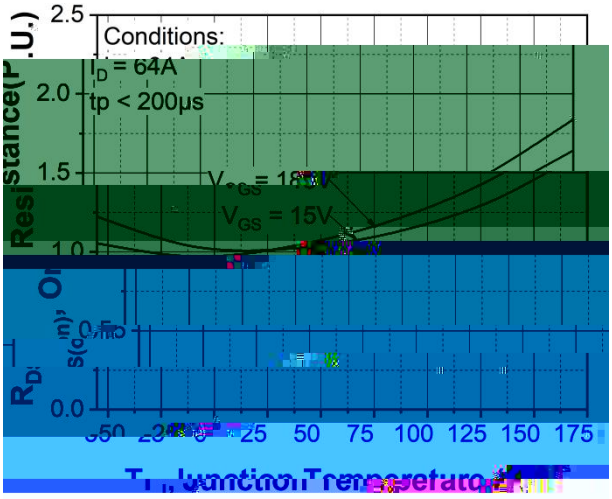
| Symbol | Parameter | Min. | Typ. | Max. | Unit | Test Conditions | Note |
|---|---|---|---|---|---|---|---|
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

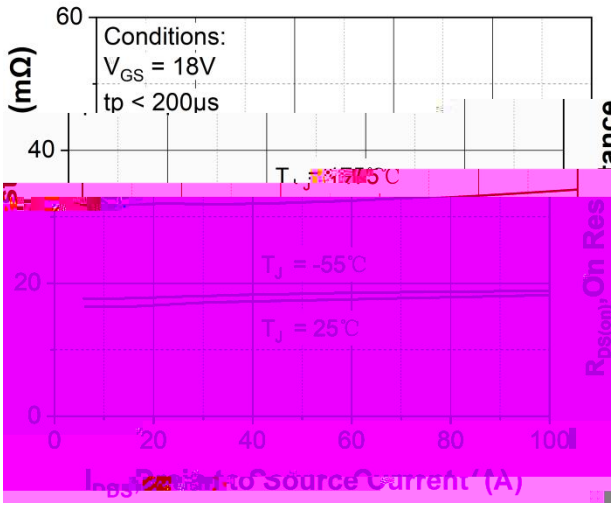
## 4 Electrical characteristic diagrams

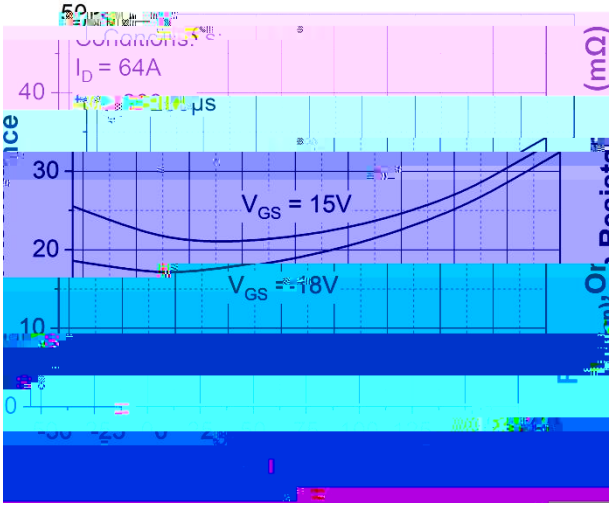


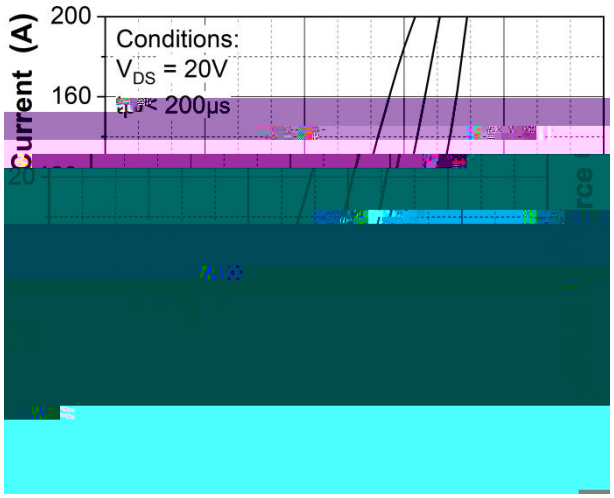



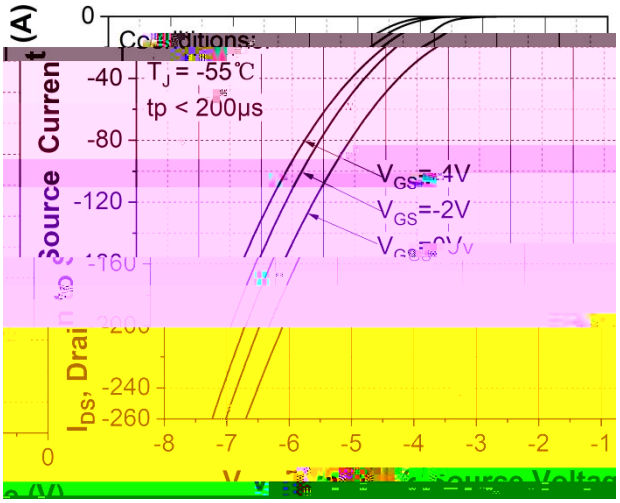



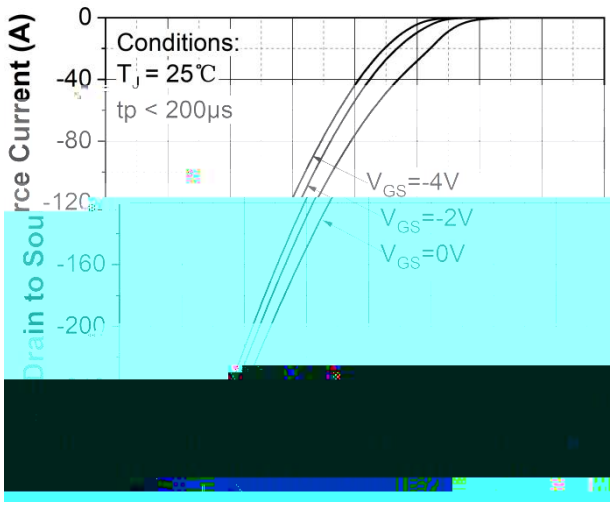



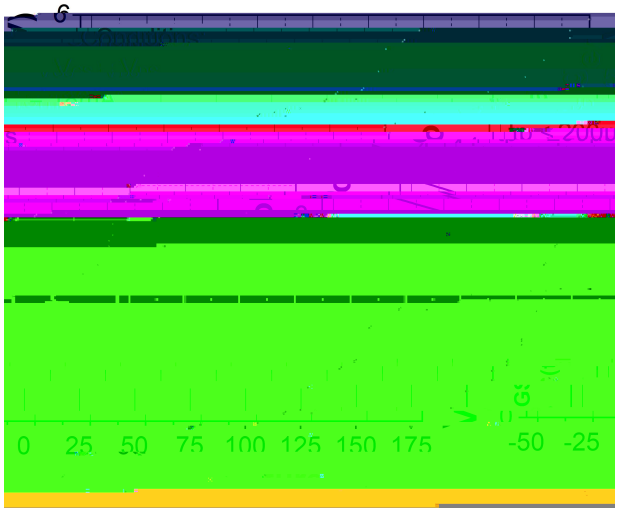
# SG2M018120J1J

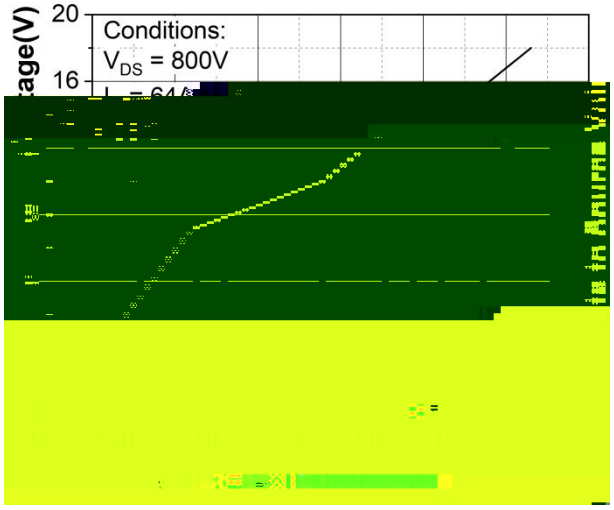


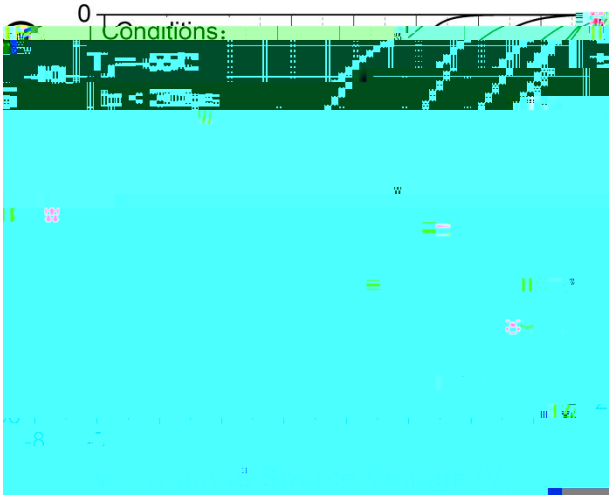



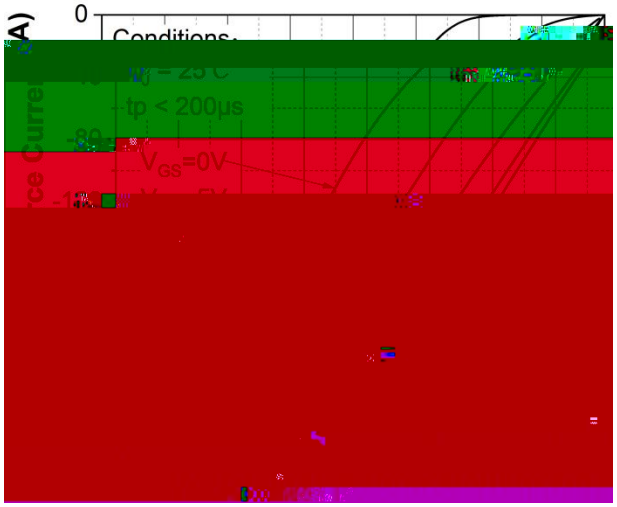


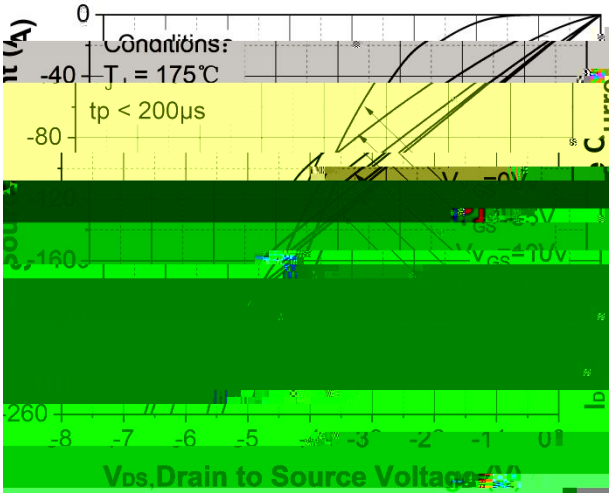



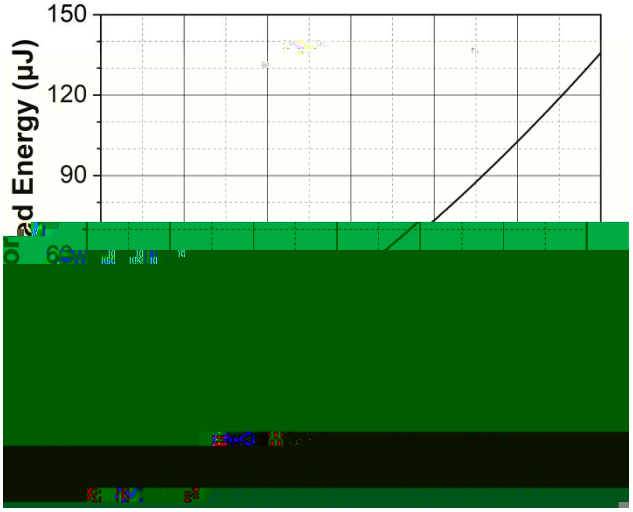



# SG2M018120J1J



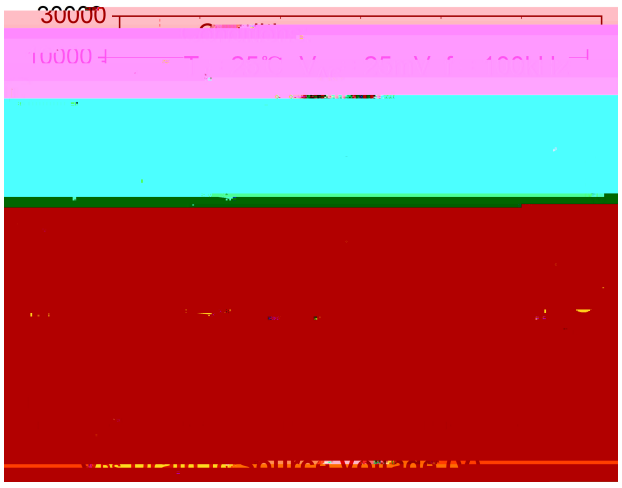



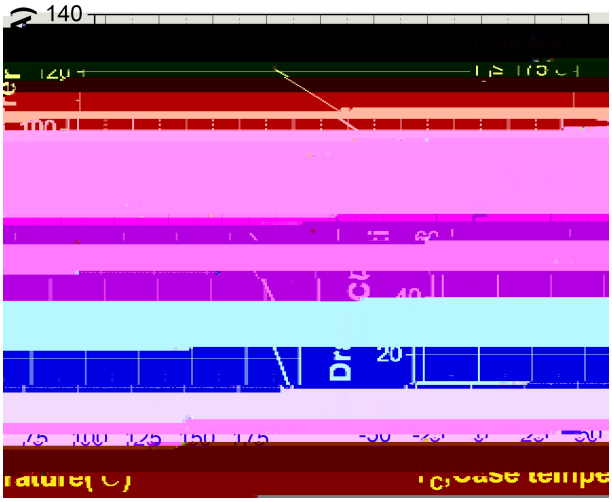



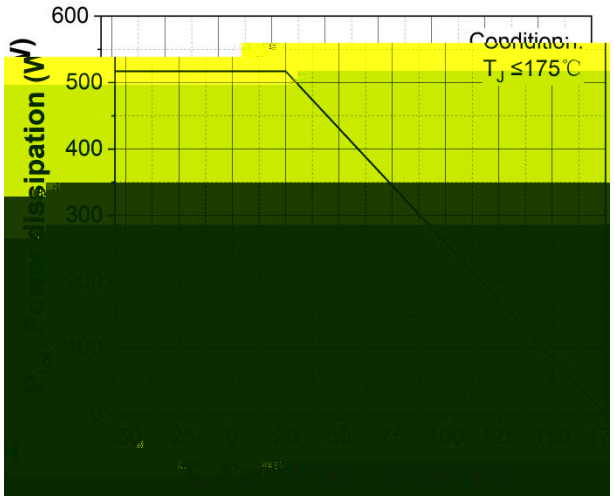


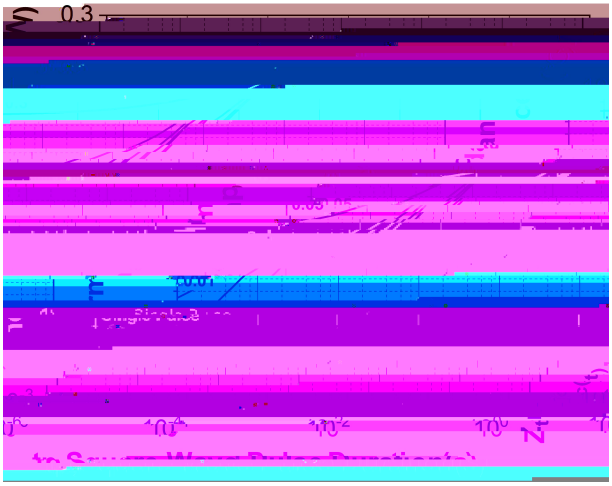


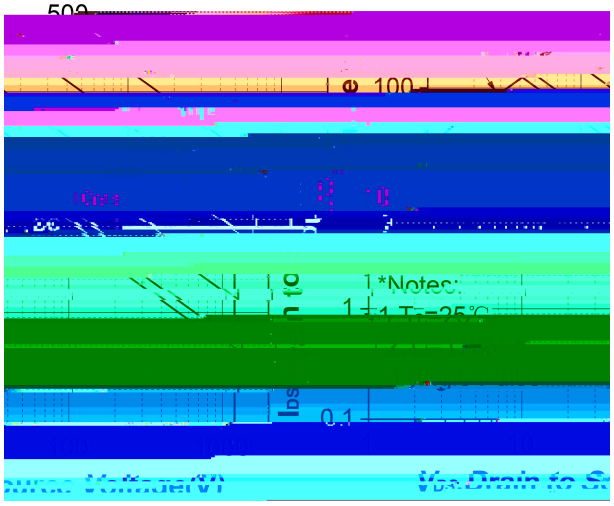


# SG2M018120J1J

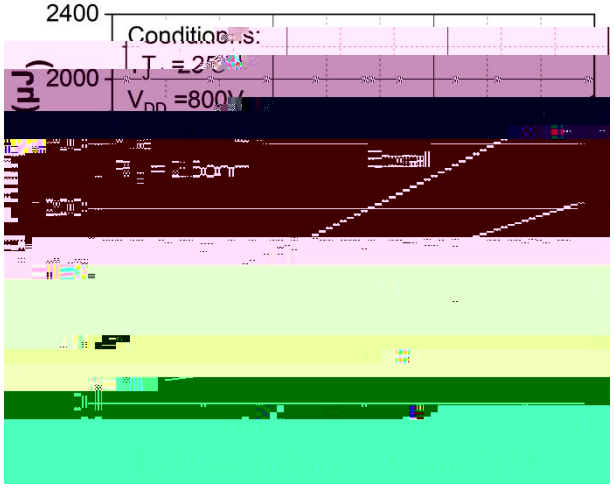


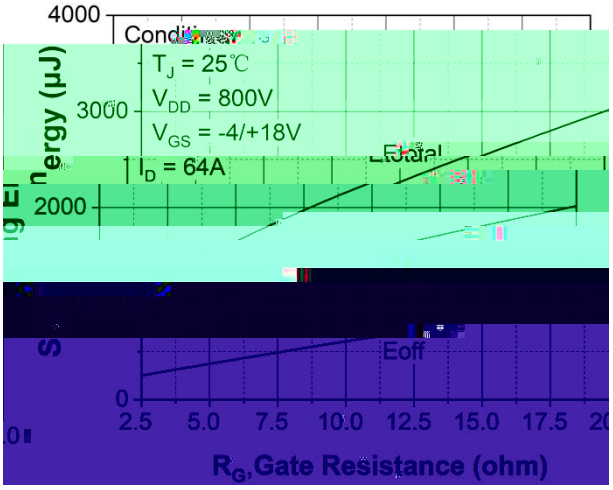



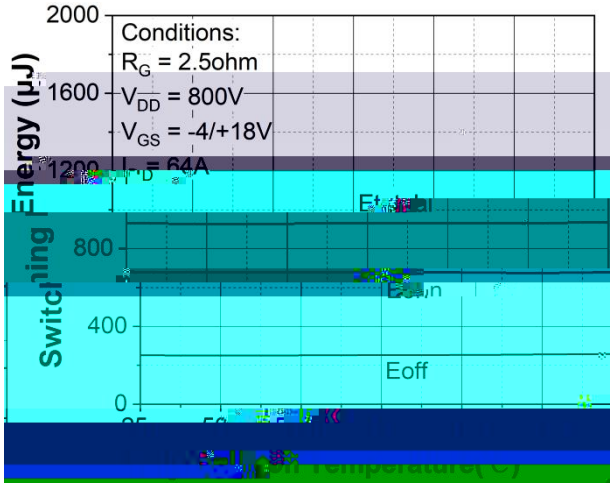



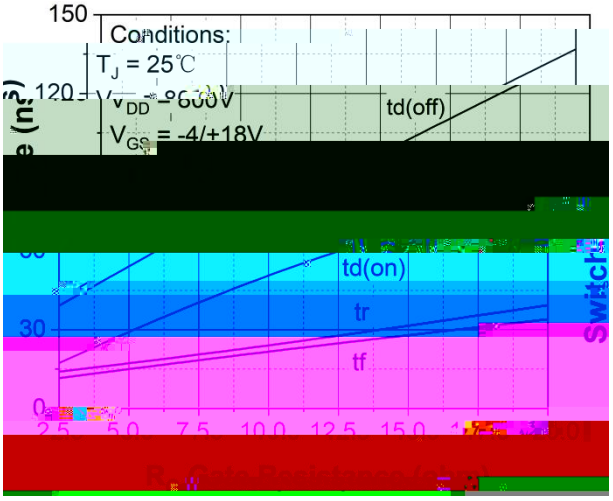


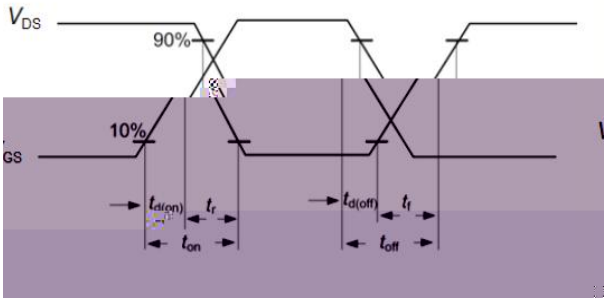
# SG2M018120J1J

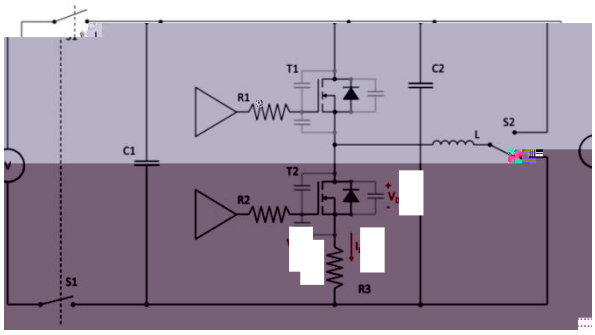


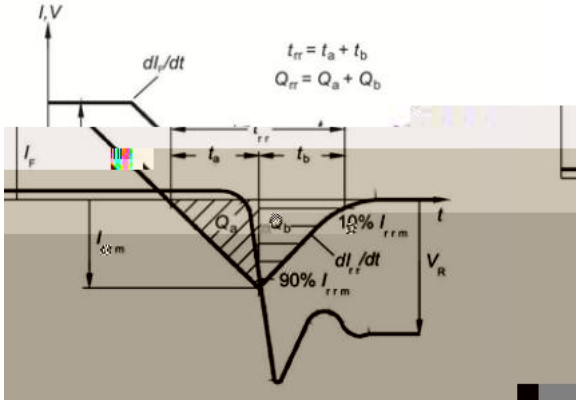



## 6 Test conditions



# SG2M018120J1J

# SG2M018120J1J