Powering the SiC evolution™

# GP2 040A120H

Q 1200 MO E

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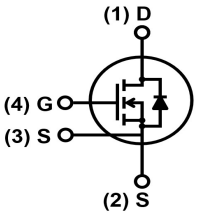
|---|---|
| | 1200 |
| $R_D$ | 37 |
| $I_{D\ (\ C=25C)}$ | 63 A |
| , | 175 C |

## F

## P



## B

## A

| P | P | M |
|---|---|---|
| GP2 040A120H | O-247-4L | 2 040A120 |

## M R

| C | | C | | |
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## C

| C | | C | | | | |
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* Pulse width is limited by $Tj_{max}$

| C | | C | | | | |
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AC E C

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B D C

| C | | C | | | | |
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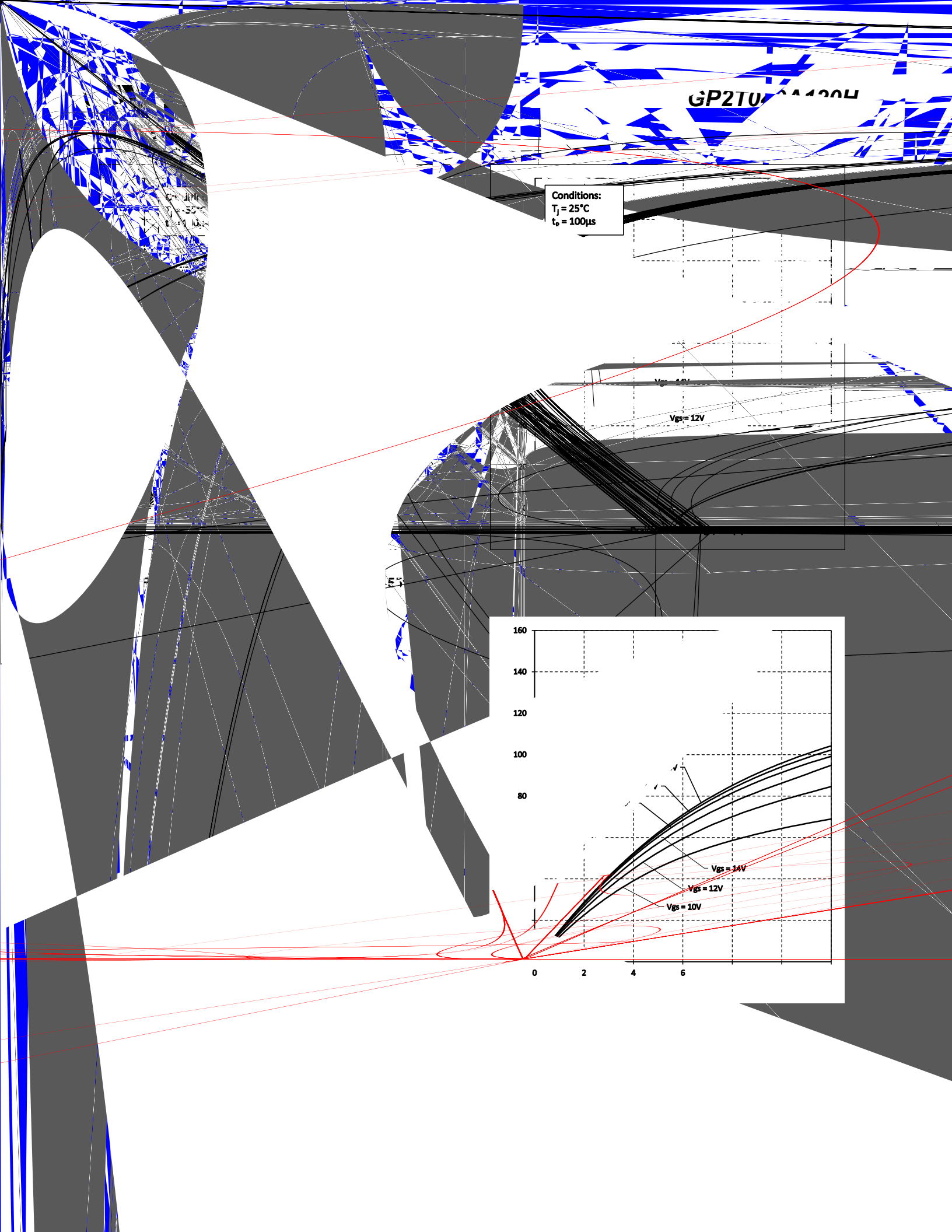
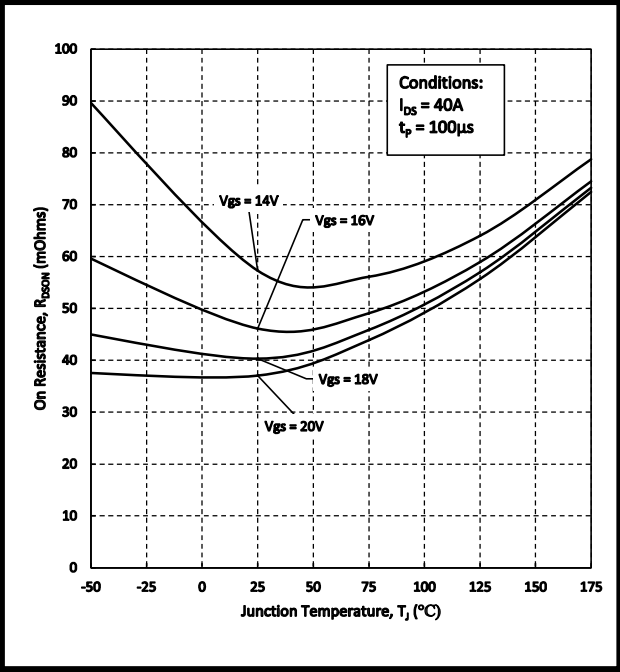
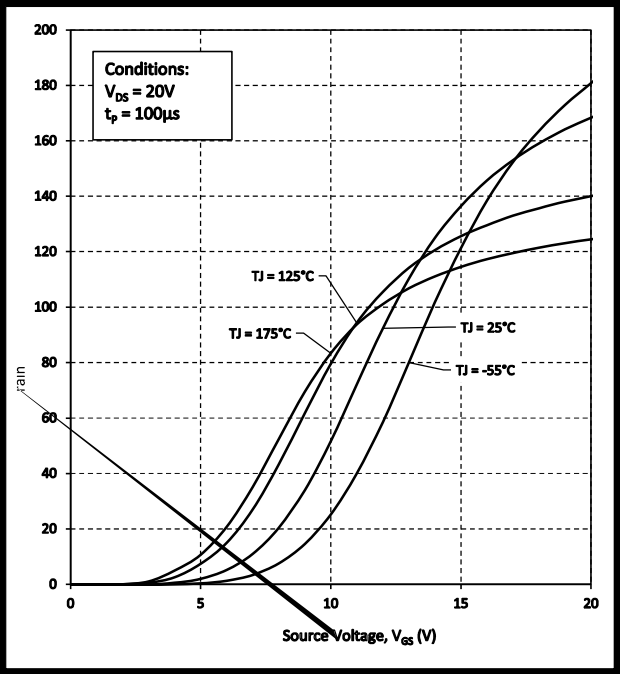
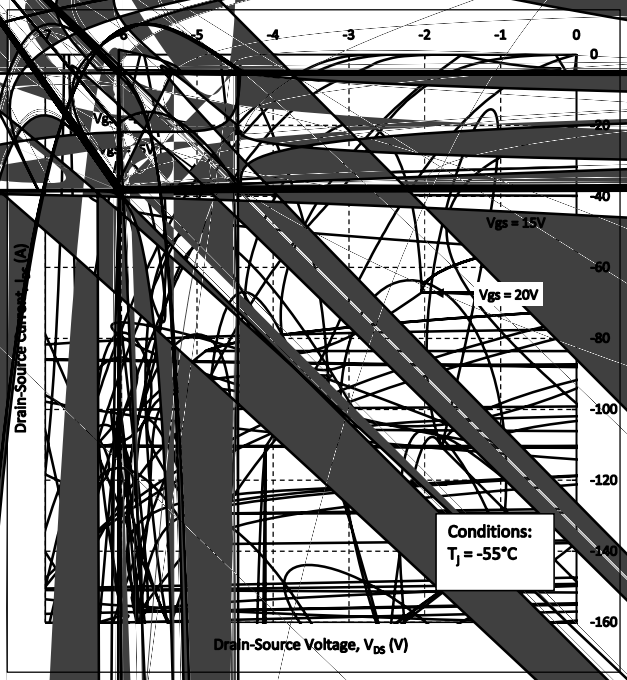
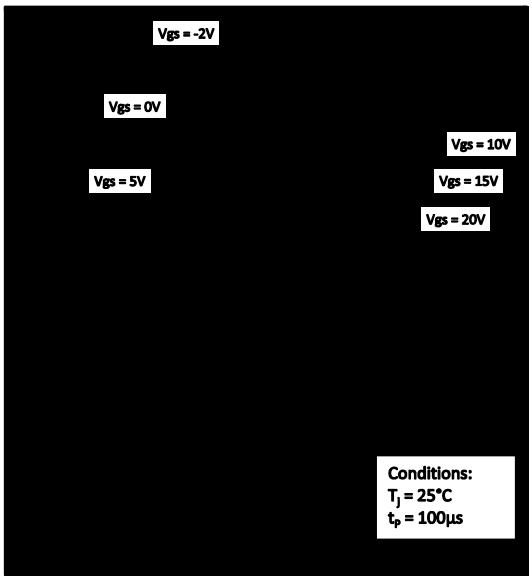

Conditions:
$T_j$ = 25°C
$t_p$ = 100µs
Vgs = 12V
160
140
120
100
80
Vgs = 14V
Vgs = 12V
Vgs = 10V
0
2
4
6

Conditions:
$V_{GS}$ = 20V
$t_p$ = 100µs



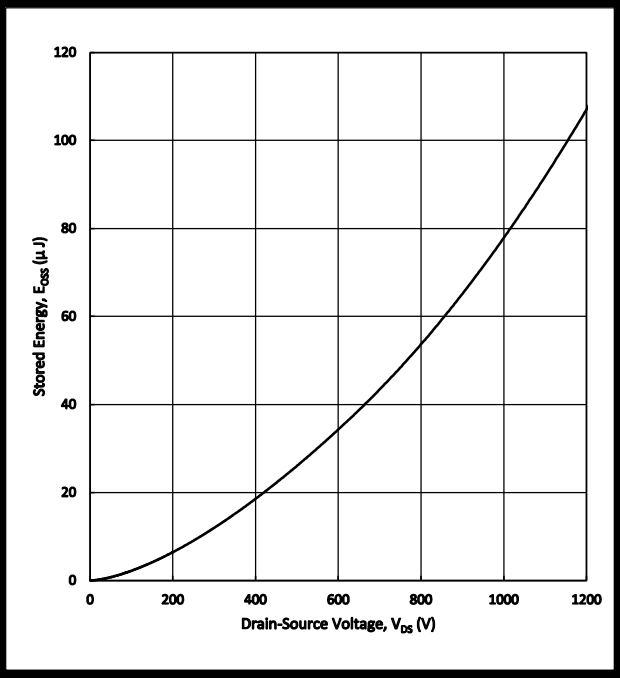



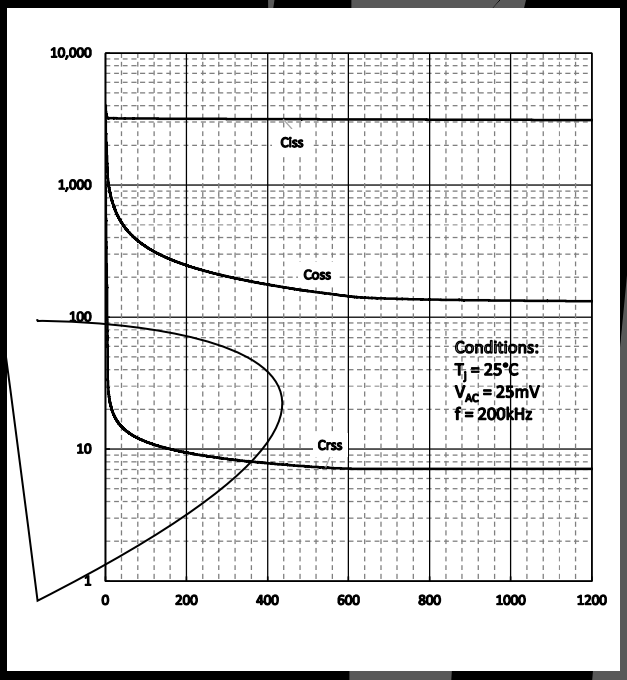


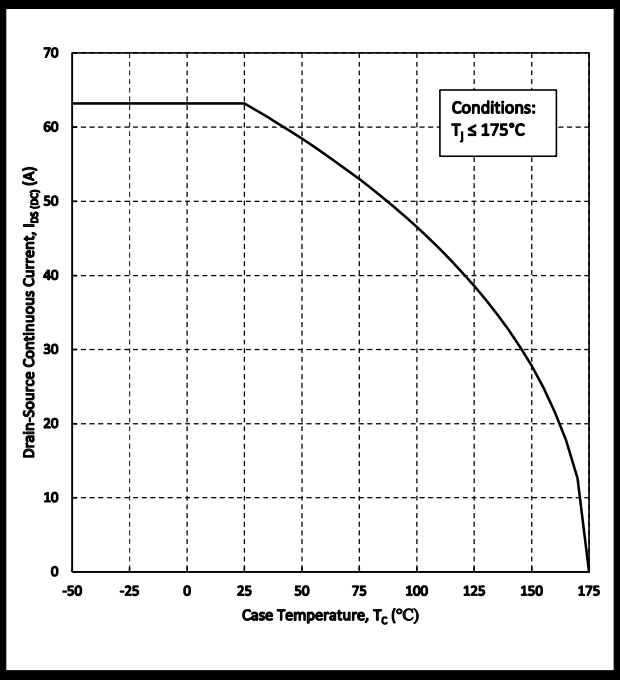



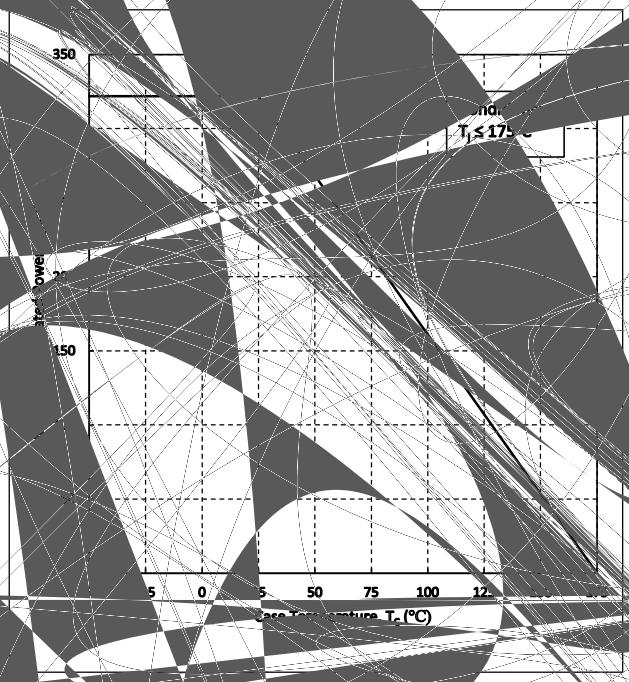

F . B C = -55 C F 0. B D

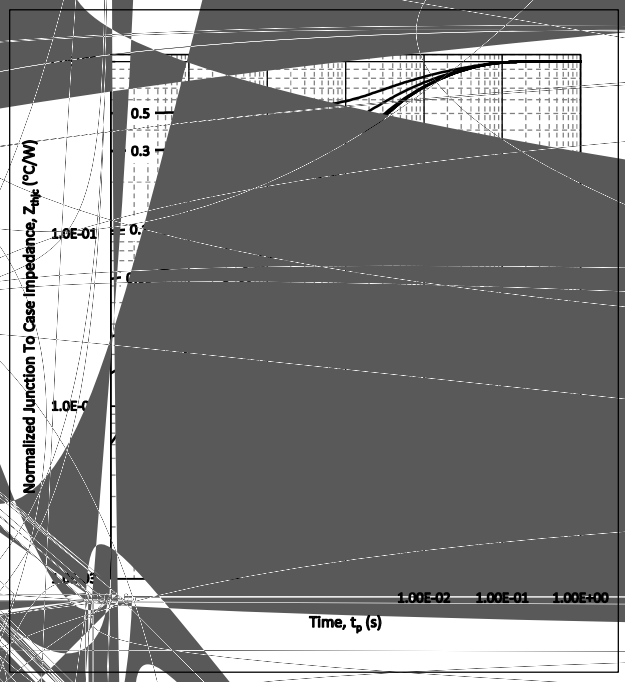
1 B C = 175 C F 12. .


Stored Energy, $E_{OSS}$ (µJ)
120
100
80
60
40
20
0
0
200
400
600
800
1000
1200
Drain-Source Voltage, $V_{DS}$ (V)

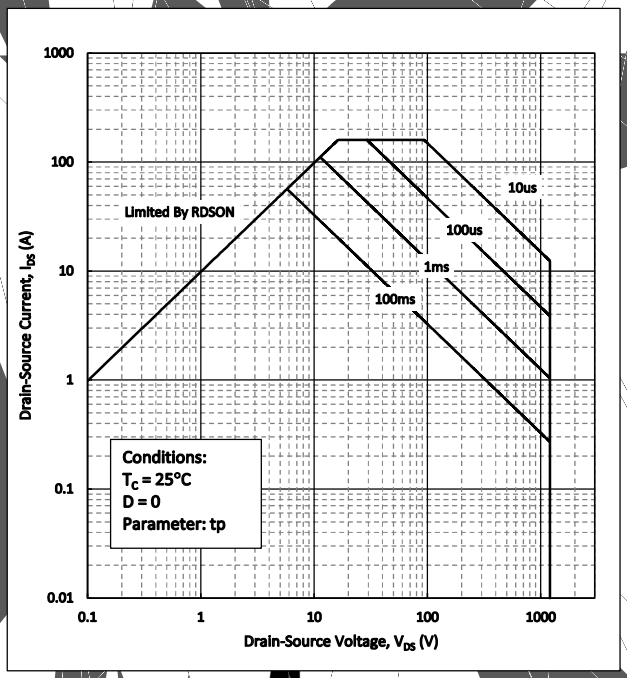

10,000
1,000
100
10
1
Ciss
Coss
Crss
Conditions:
$T_J$ = 25°C
$V_{AC}$ = 25mV
f = 200kHz
0
200
400
600
800
1000
1200

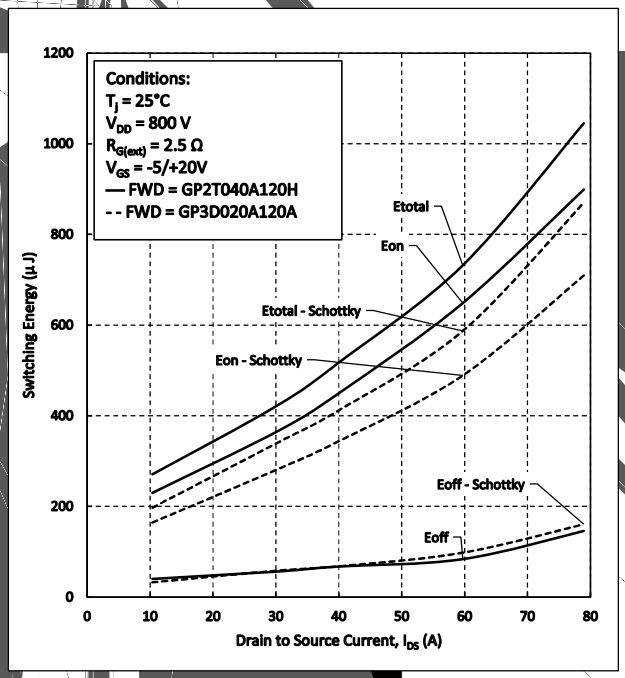

Drain-Source Continuous Current, $I_{DS\ (DC)}$ (A)
70
60
50
40
30
20
10
0
Conditions:
$T_J \leq 175°C$
-50
-25
0
25
50
75
100
125
150
175
Case Temperature, $T_C$ (°C)



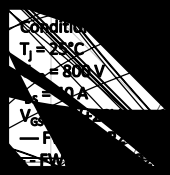



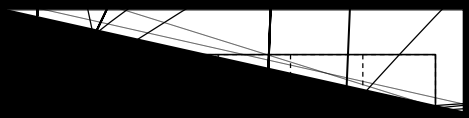

F [illegible] 17. M P D D F 18. [illegible]



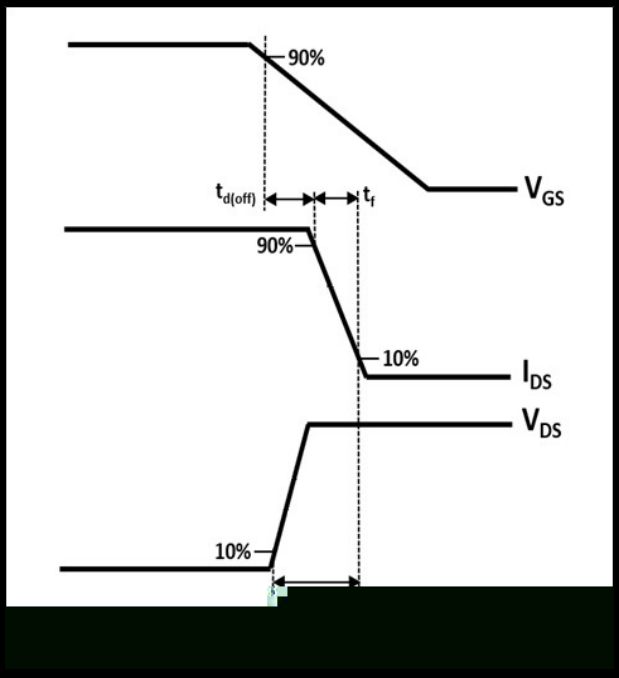



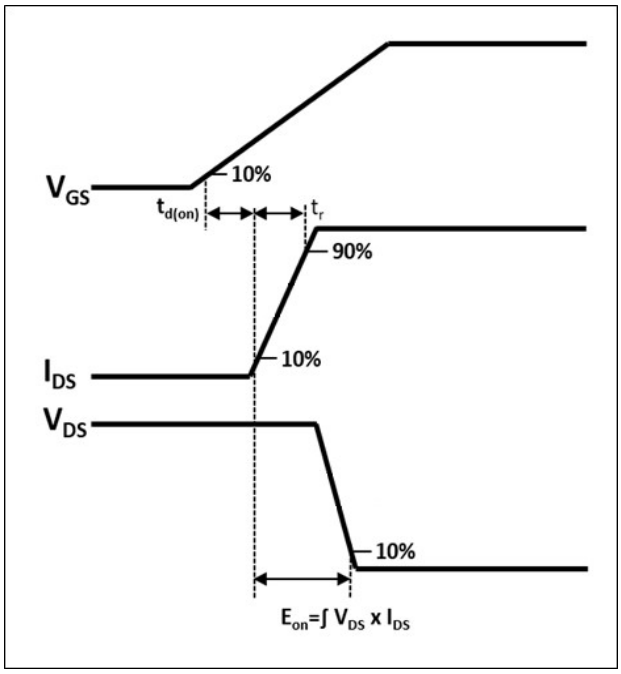

F 19. [illegible] O A F 20. [illegible] E .

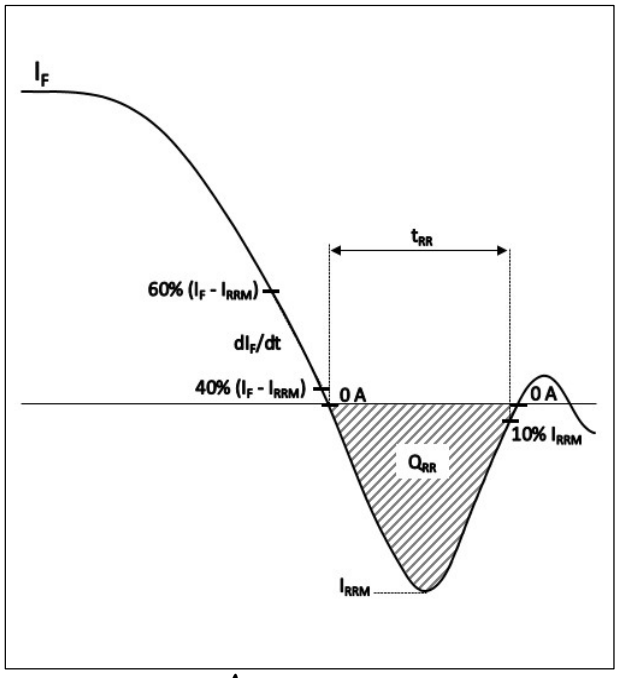




**Conditions:**
$T_J$ = 25°C
$V_{DD}$ = 800 V
$I_{DS}$ = 40 A
$V_{GS}$ = -5/+20V
FWD = GP2T040A120H

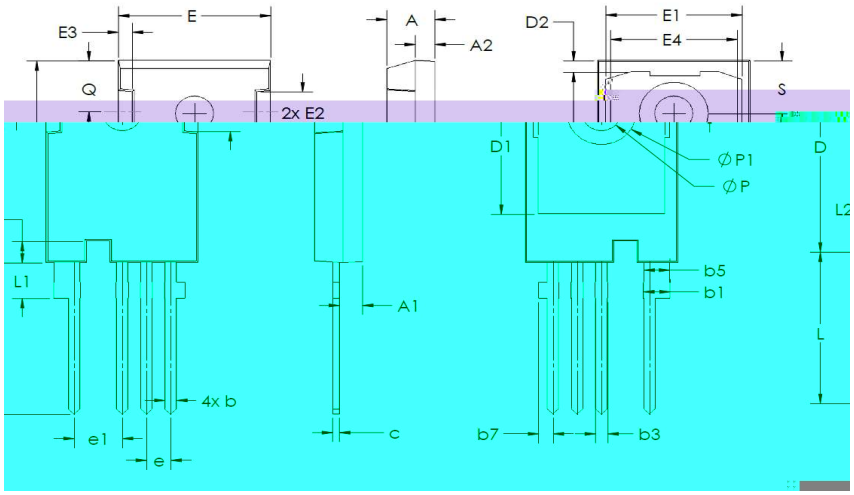





**F 25. - D** **F 26. R R D**

**P D O-247-4L**




| | M | | I | |
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| | M | M | M | M |
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