Powering the SiC evolution™

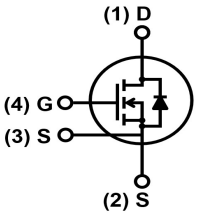
GP2 040A120H

Q 1200 MO E

	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		

C

C		C				

* Pulse width is limited by Tj_{max}

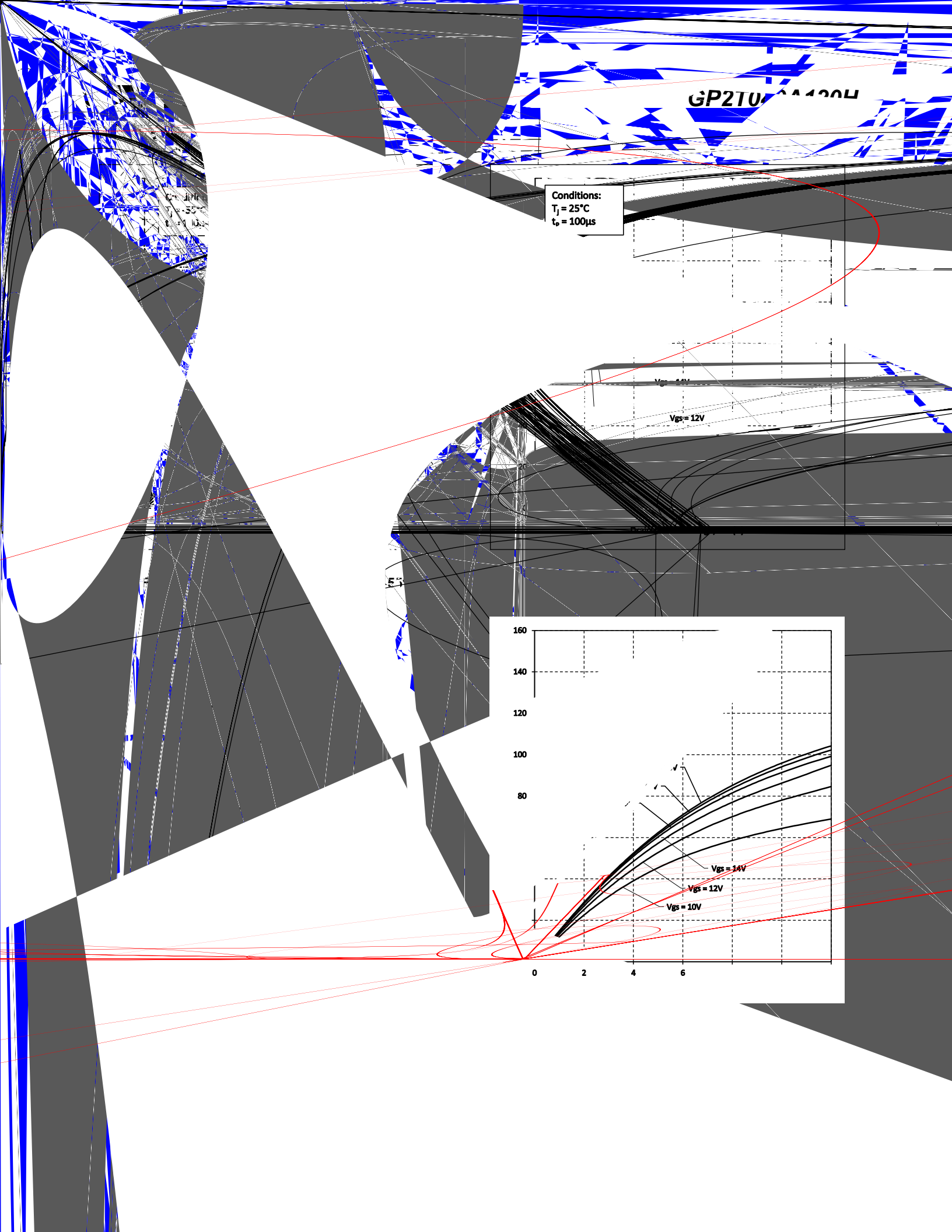
C		C				
						Ω

AC E C

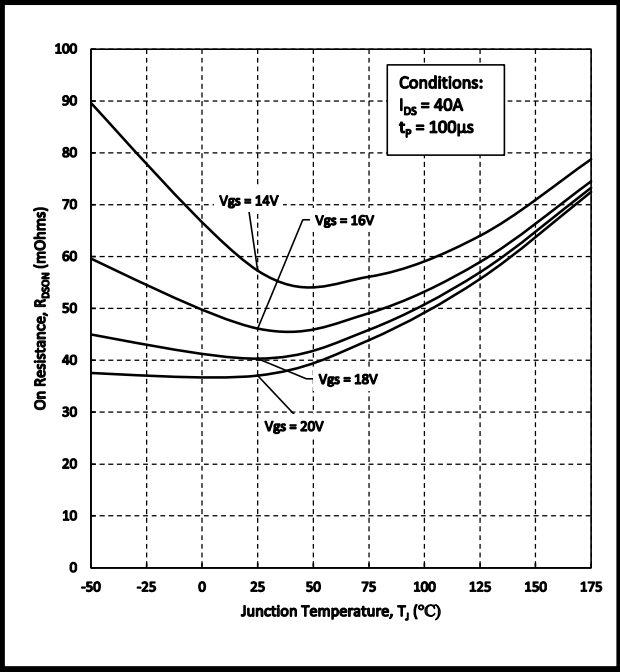
C		C				

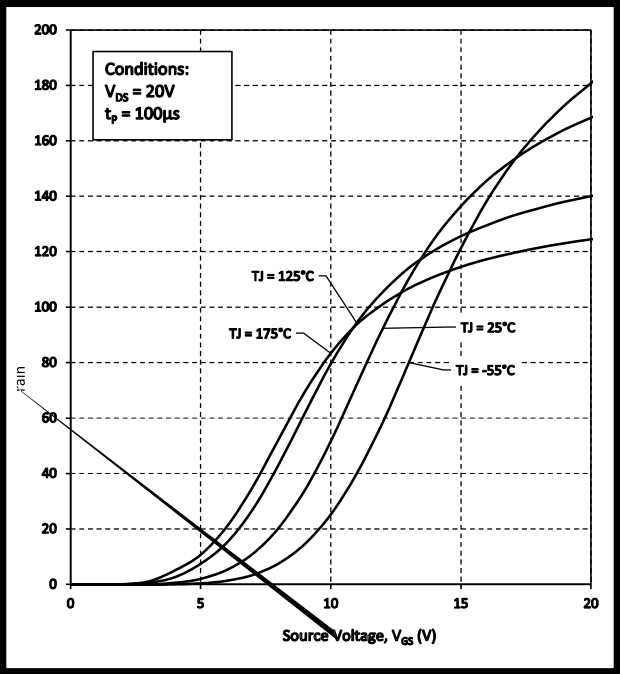
B D C

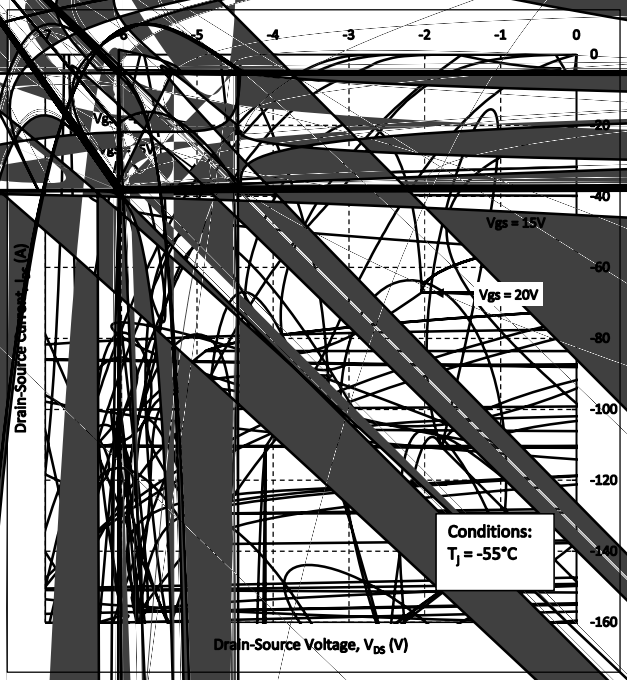
C		C				

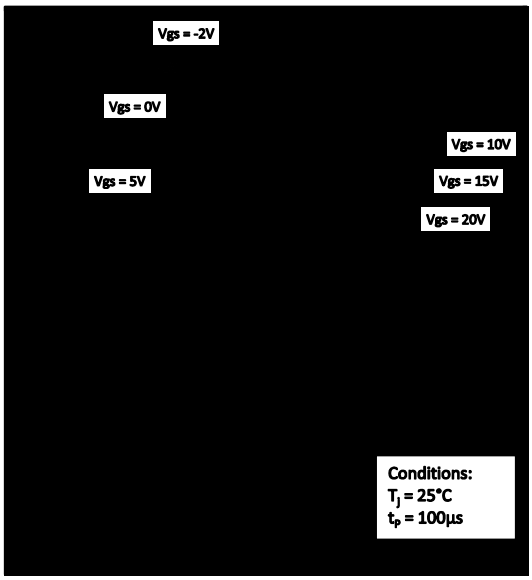

Conditions:
T_j = 25°C
t_p = 100µs
Vgs = 12V
160
140
120
100
80
Vgs = 14V
Vgs = 12V
Vgs = 10V
0
2
4
6

Conditions:
V_{GS} = 20V
t_p = 100µs



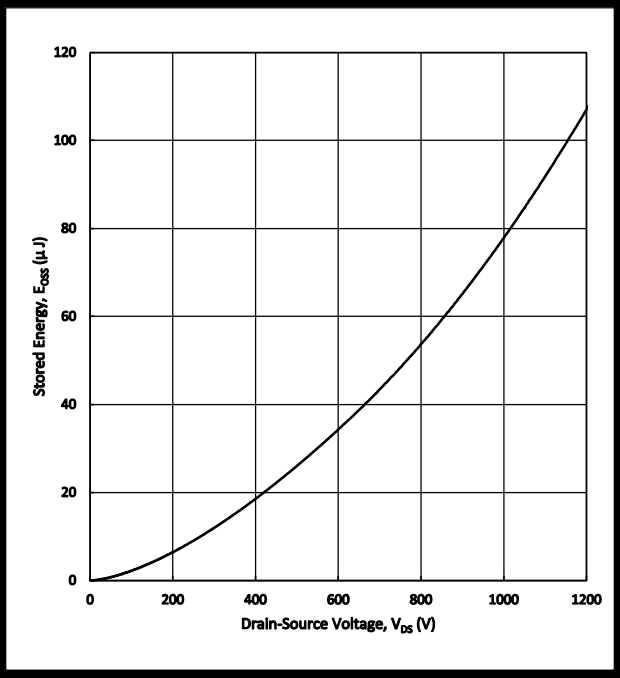


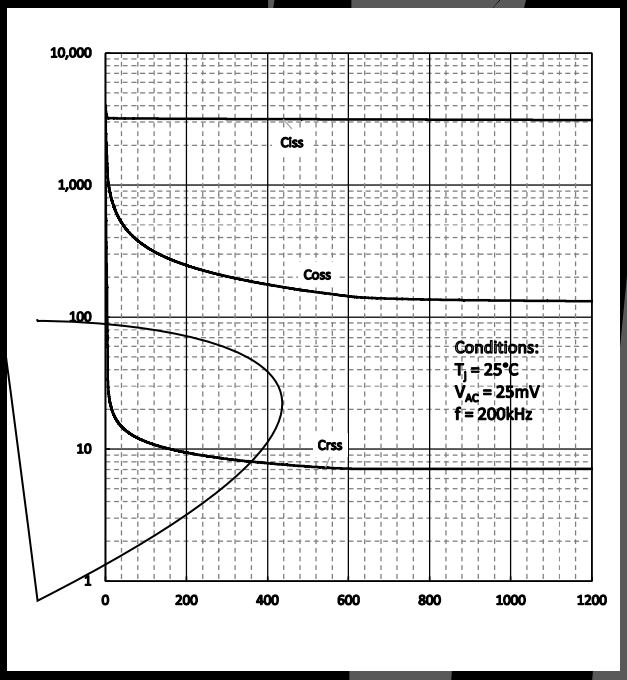


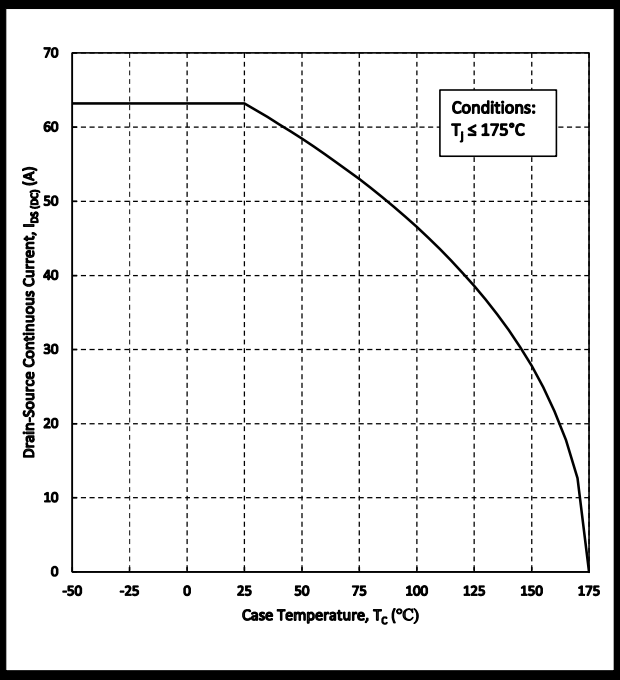


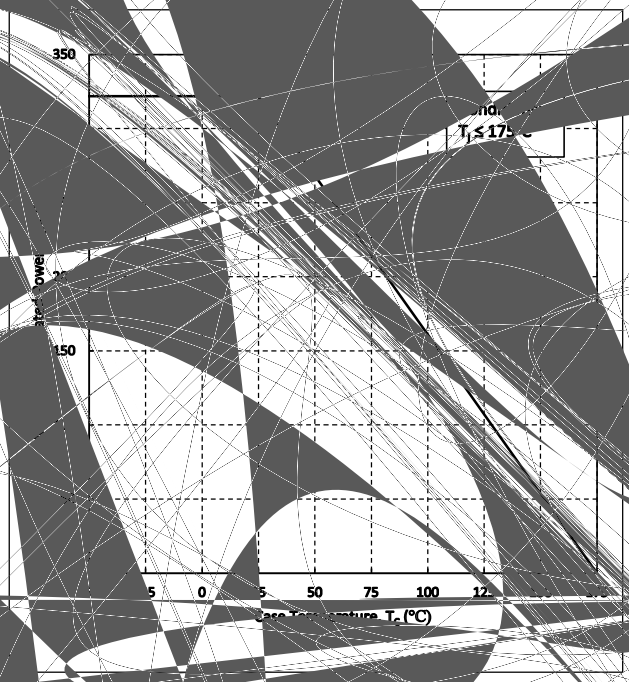
F . B C = -55 C F 0. B D

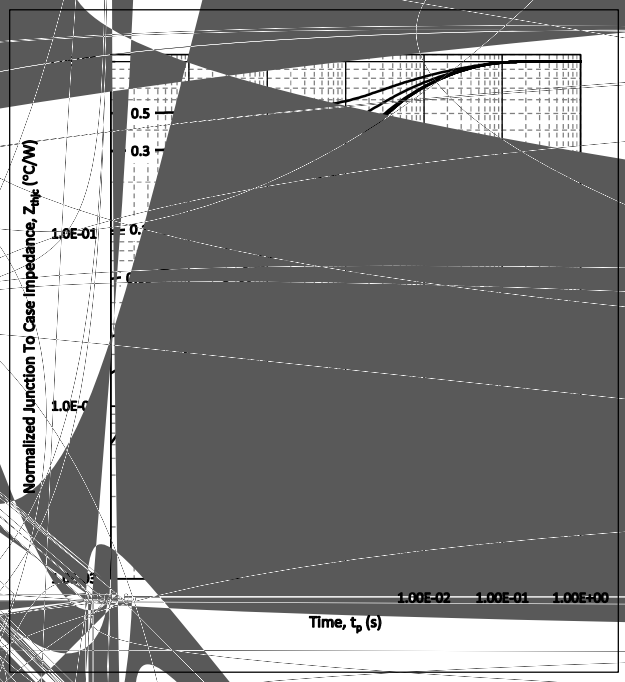
1 B C = 175 C F 12. .


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)

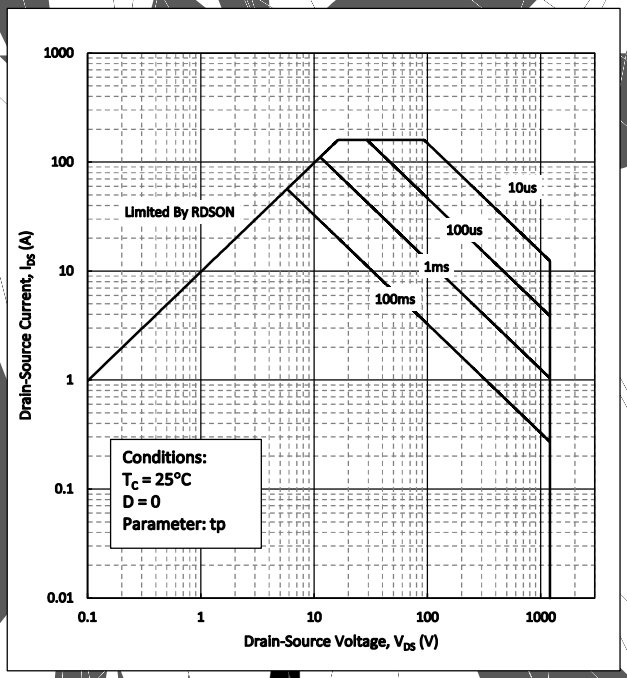

10,000
1,000
100
10
1
Ciss
Coss
Crss
Conditions:
T_J = 25°C
V_{AC} = 25mV
f = 200kHz
0
200
400
600
800
1000
1200

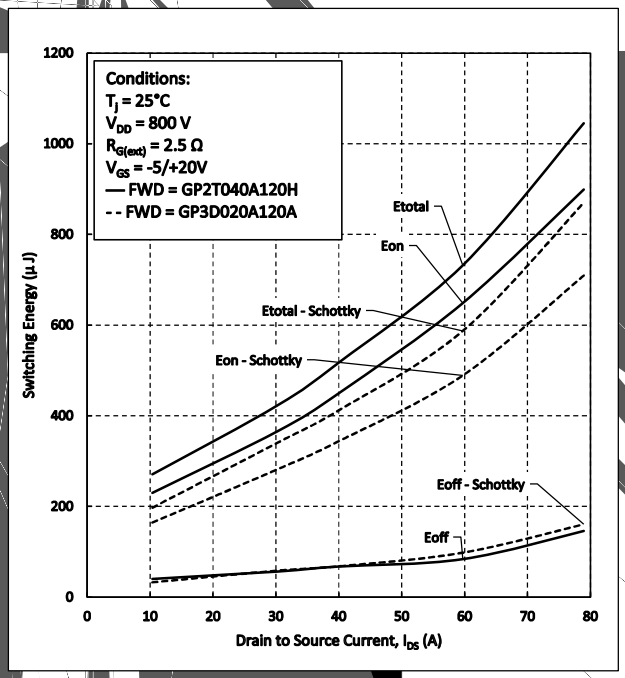

Drain-Source Continuous Current, $I_{DS\ (DC)}$ (A)
70
60
50
40
30
20
10
0
Conditions:
$T_J \leq 175°C$
-50
-25
0
25
50
75
100
125
150
175
Case Temperature, T_C (°C)



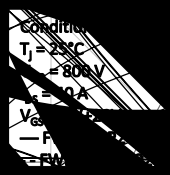


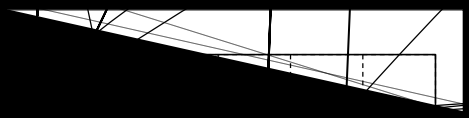
F [illegible] 17. M P D D F 18. [illegible]



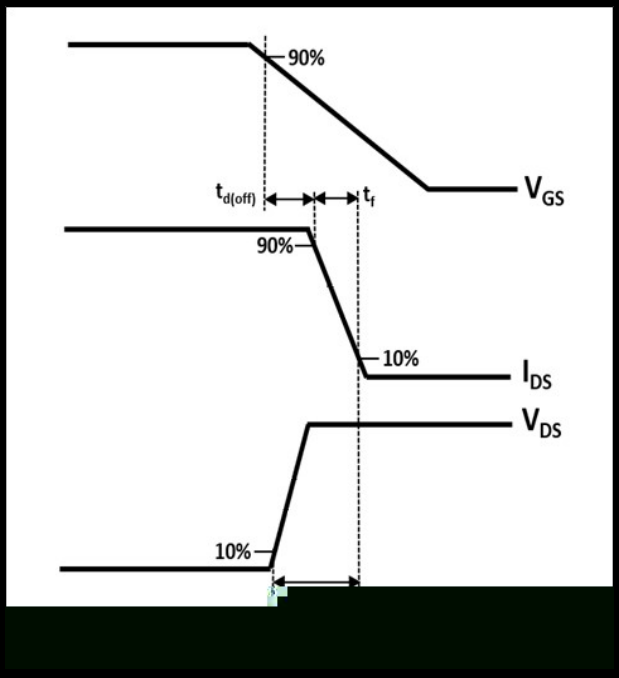


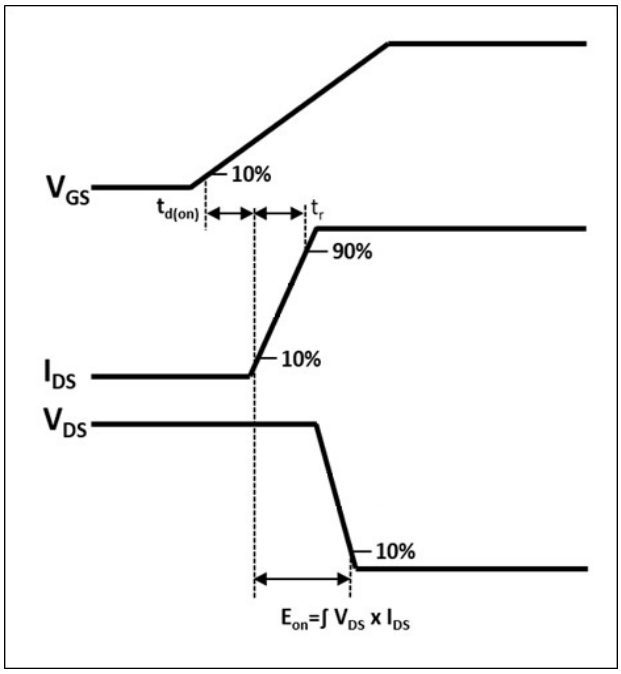
F 19. [illegible] O A F 20. [illegible] E .

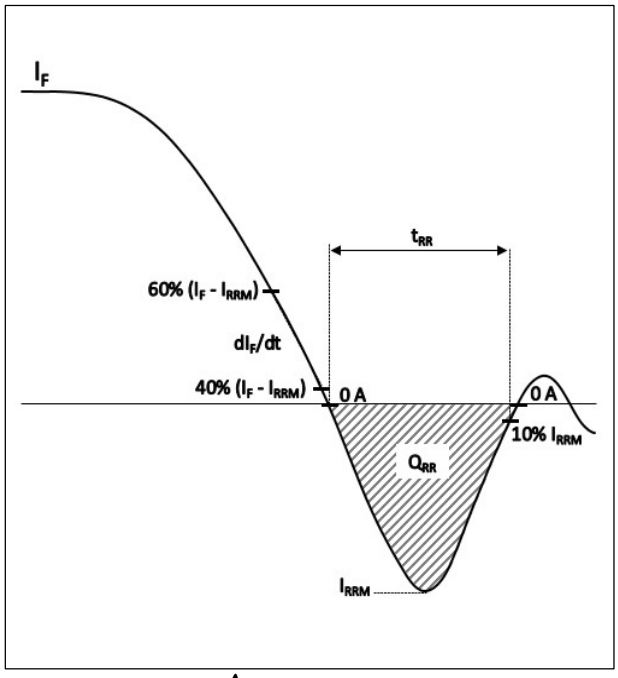




Conditions:
T_J = 25°C
V_{DD} = 800 V
I_{DS} = 40 A
V_{GS} = -5/+20V
FWD = GP2T040A120H

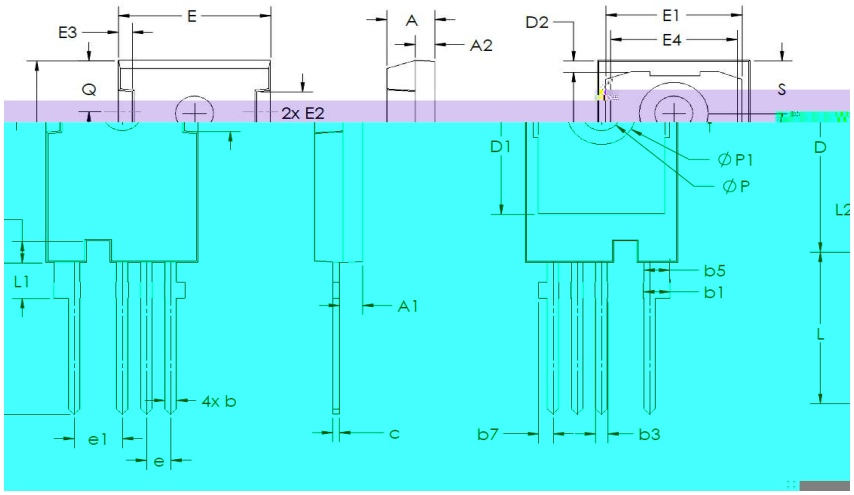






F 25. - D **F 26. R R D**

P D O-247-4L



	M		I	
	M	M	M	M

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