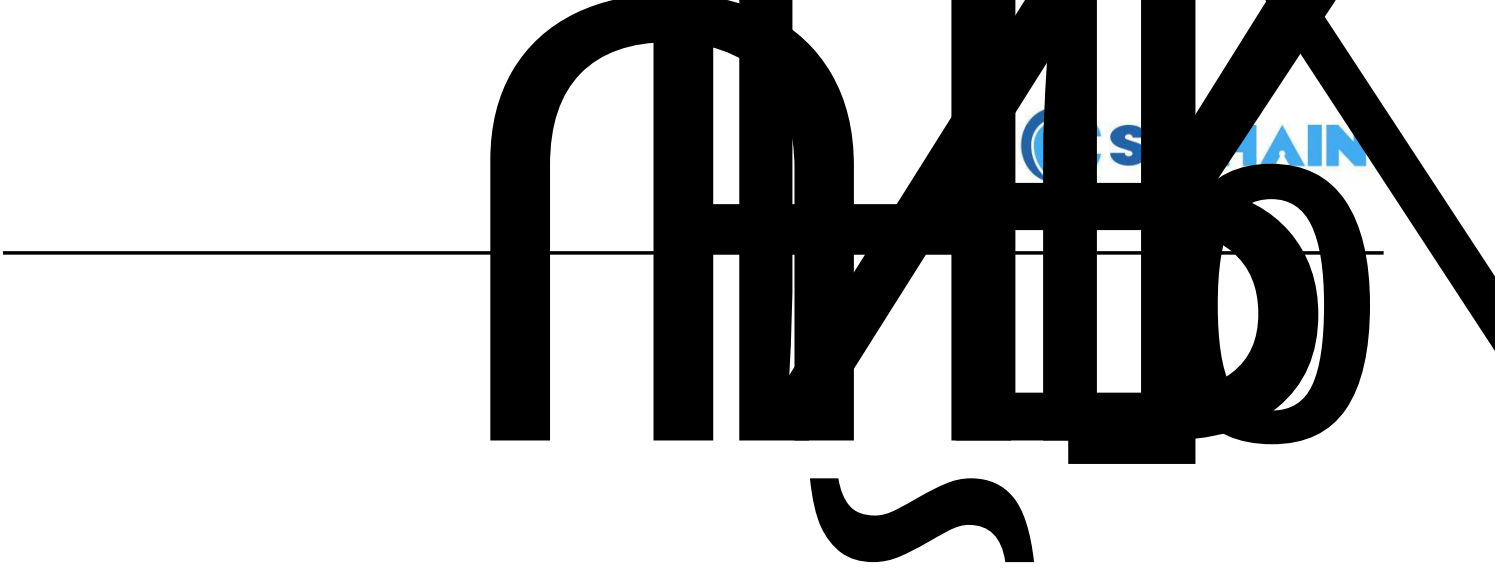
-
-
-
-
-
-
-
-

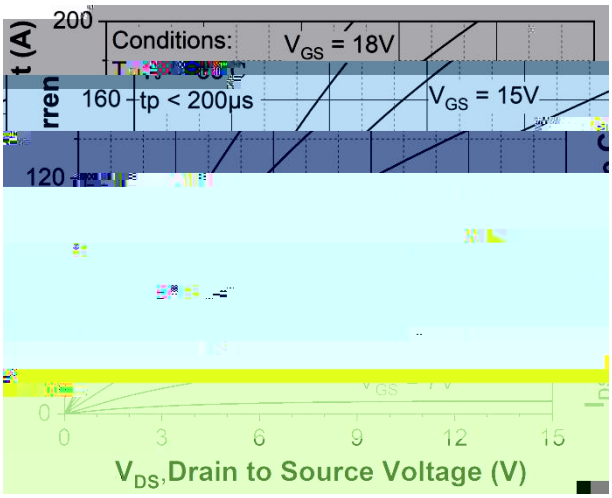
-
-
-
-
-

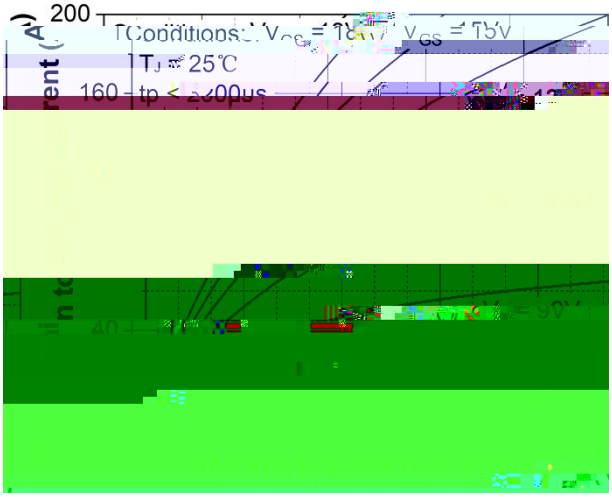

F
Cl
Halogen-Free
Br
I

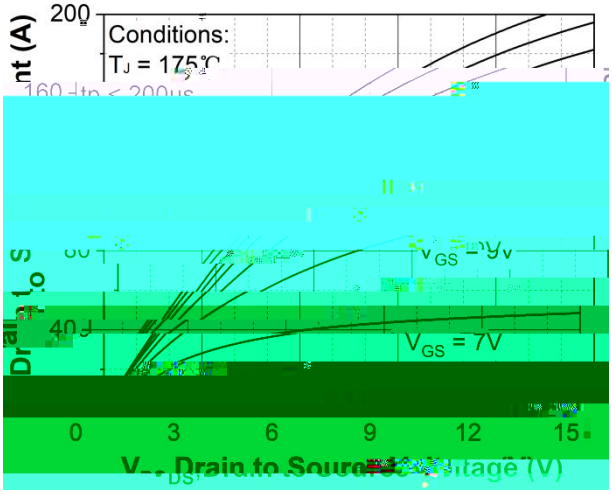
-
-
-
-

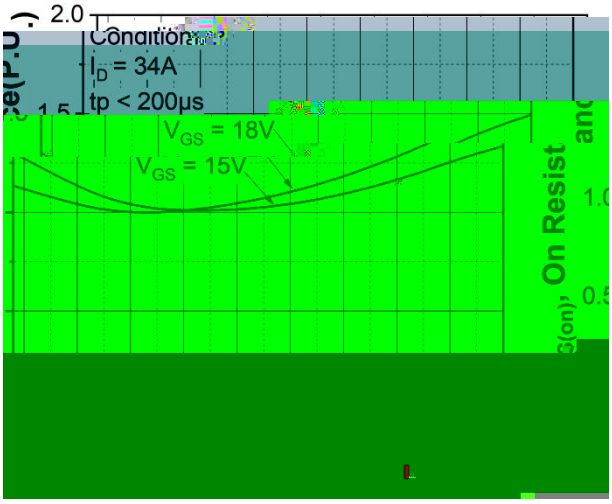


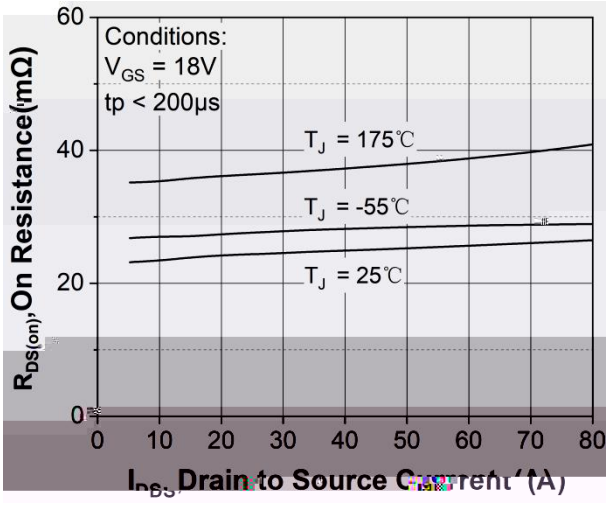
Ã 0@Q 22@ðpQ 22@•

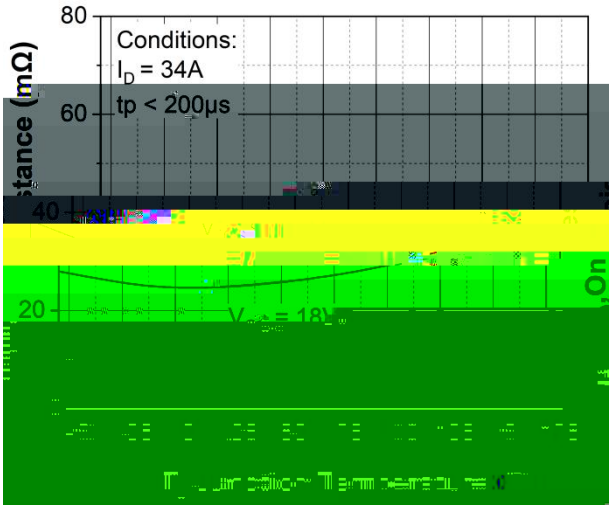

Conditions:
V_{GS} = 18V
T_J = 25℃
tp < 200μs
V_{GS} = 15V
V_{GS} = 7V
200
160
120
40
0
0
3
6
9
12
15
V_{DS},Drain to Source Voltage (V)

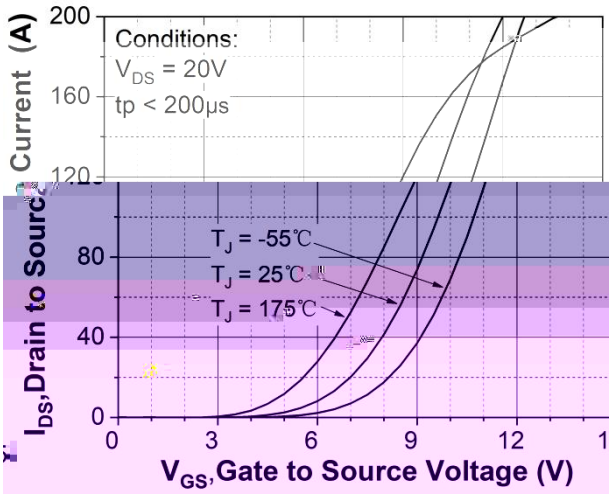

Conditions:
T_J = 25℃
tp < 200μs
200
160
40

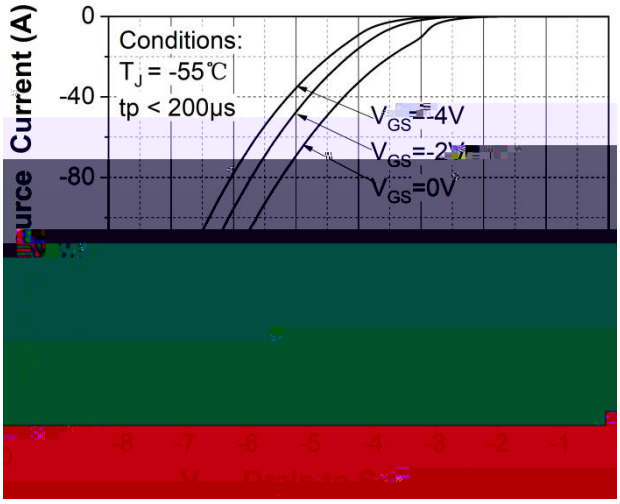

Conditions:
T_J = 175℃
tp < 200μs
V_{GS} = 7V
200
160
40
0
3
6
9
12
15

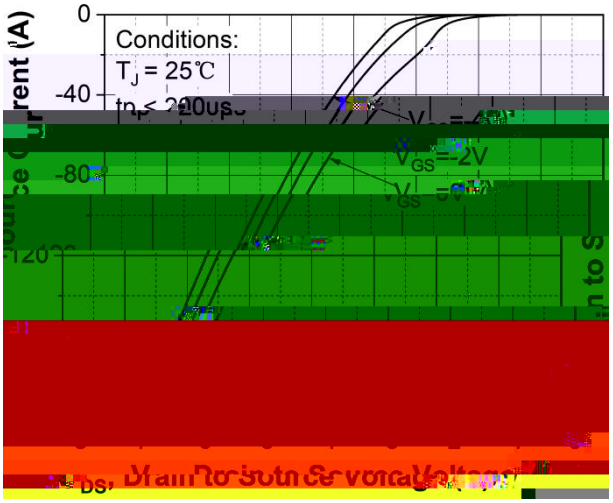

Conditions:
I_D = 34A
tp < 200μs
V_{GS} = 18V
V_{GS} = 15V
2.0
1.0
0.5

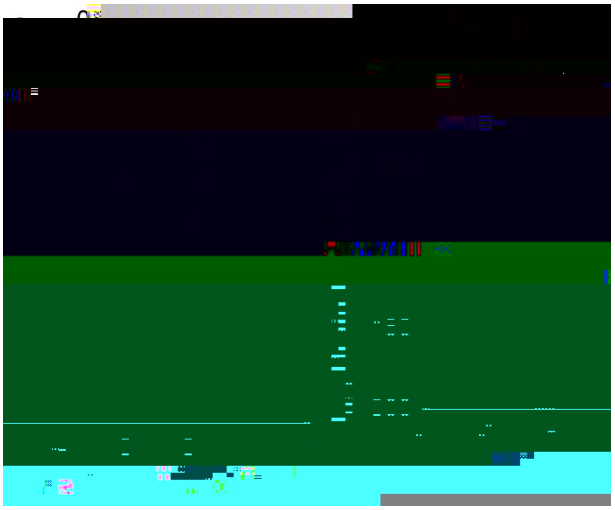

Conditions:
V_{GS} = 18V
tp < 200μs
T_J = 175℃
T_J = -55℃
T_J = 25℃
60
40
20
0
0
10
20
30
40
50
60
70
80
$R_{DS(on)}$,On Resistance(mΩ)
I_{DS},Drain to Source Current (A)

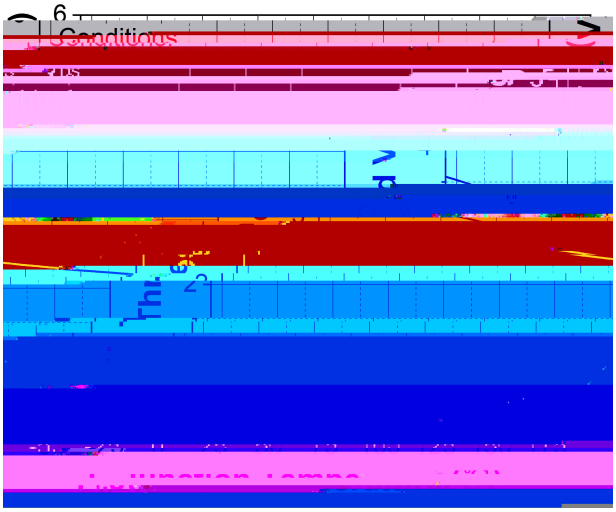

Conditions:
I_D = 34A
tp < 200μs
80
60
40
20

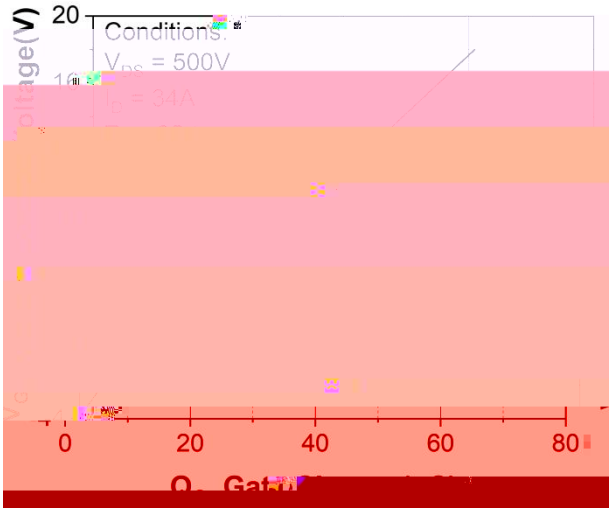

Conditions:
V_{DS} = 20V
tp < 200μs
T_J = -55℃
T_J = 25℃
T_J = 175℃
I_{DS},Drain to Source Current (A)
V_{GS},Gate to Source Voltage (V)
200
160
120
80
40
0
0
3
6
9
12

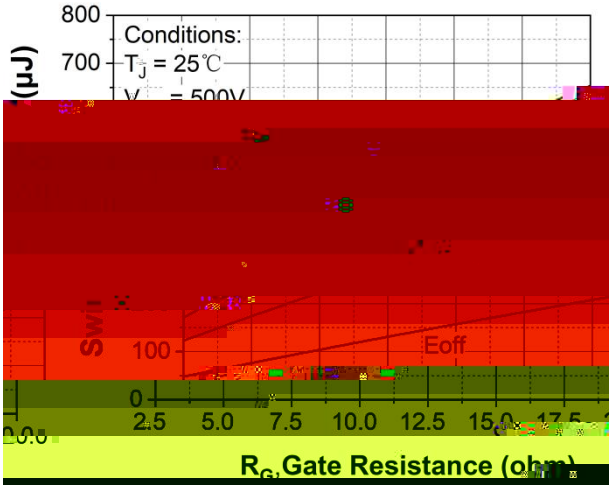

Conditions:
T_J = -55℃
tp < 200μs
V_{GS}=-4V
V_{GS}=-2V
V_{GS}=0V
0
-40
-80

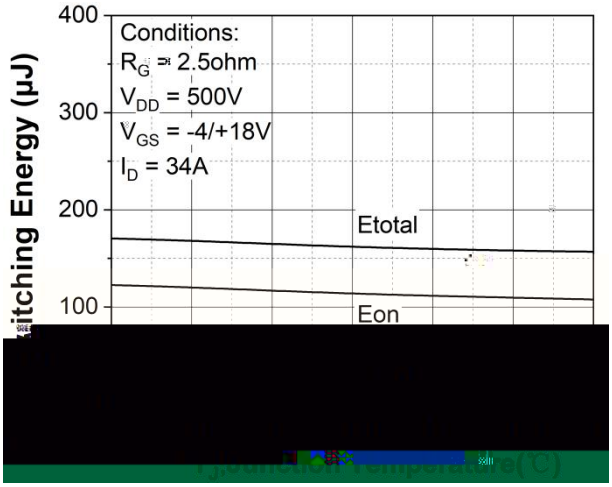

Conditions:
T_J = 25℃
V_{GS}=-2V
0
-40
-80

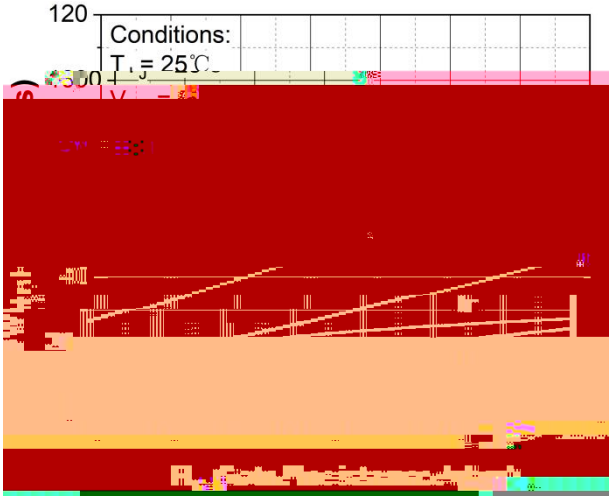


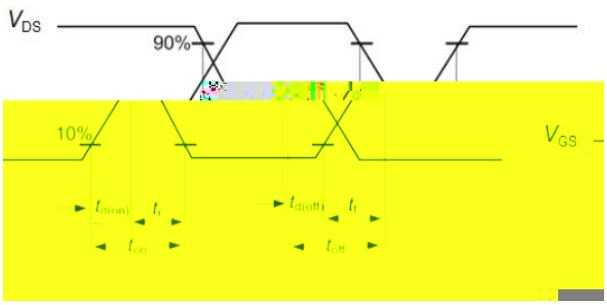

Conditions:
6

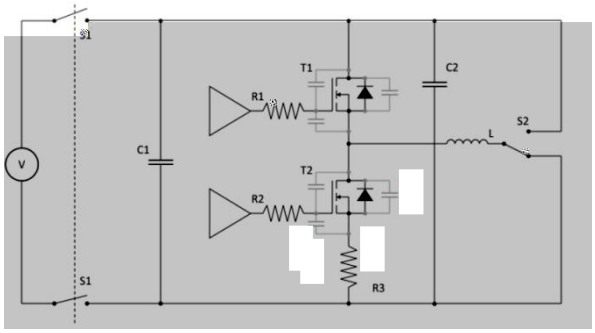

Conditions:
V_{DS} = 500V
I_D = 34A
20
0
20
40
60
80

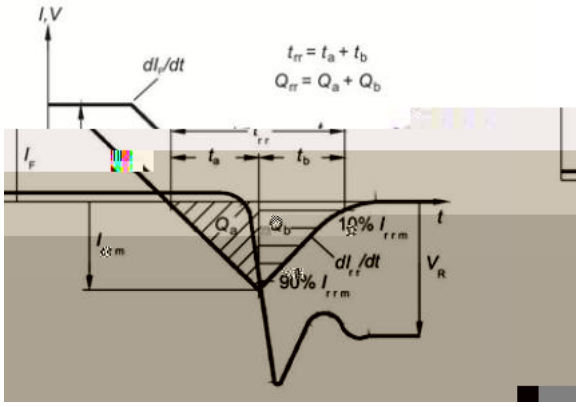

800
700
Conditions:
T_j = 25℃
100
Eoff
0
2.5
5.0
7.5
10.0
12.5
15.0
R_G, Gate Resistance (ohm)


400
300
200
100
Conditions:
R_G = 2.5ohm
V_{DD} = 500V
V_{GS} = -4/+18V
I_D = 34A
Etotal
Eon


120
Conditions:


V_{DS}
90%
10%
V_{GS}
$t_{d(on)}$
t_r
t_{on}
$t_{d(off)}$
t_f
t_{off}


S1
T1
C2
R1
S2
L
V
C1
T2
R2
R3
S1


I,V
dI_F/dt
$t_{rr} = t_a + t_b$
$Q_{rr} = Q_a + Q_b$
I_F
t_a
t_b
Q_a
Q_b
10% I_{rrm}
t
I_{rrm}
dI_{rr}/dt
90% I_{rrm}
V_R

		— —	— —
		— —	— —
		— —	— —
		— —	— —
		— —	— —
		— —	— —
		— —	— —

ë ¼ÐÐÐÐR ƒ$g€• Pë |@Ð `
We K + Ý P Dq%a@••