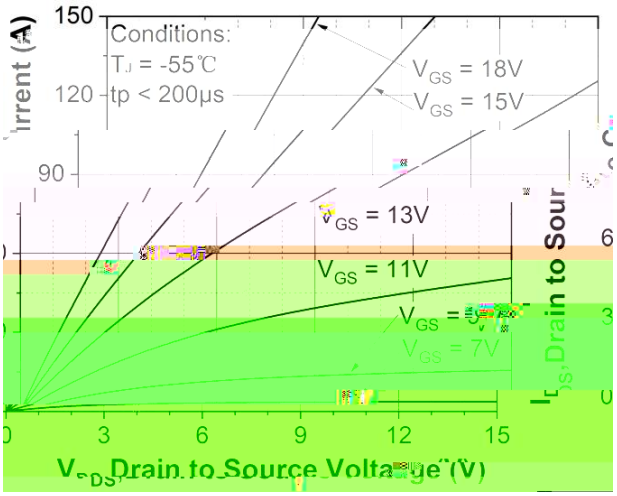
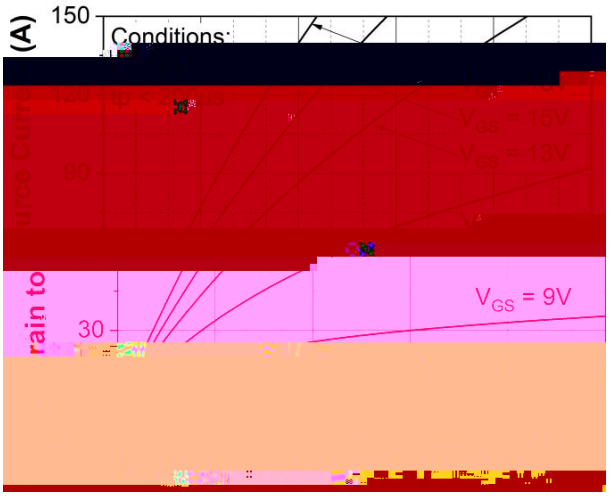
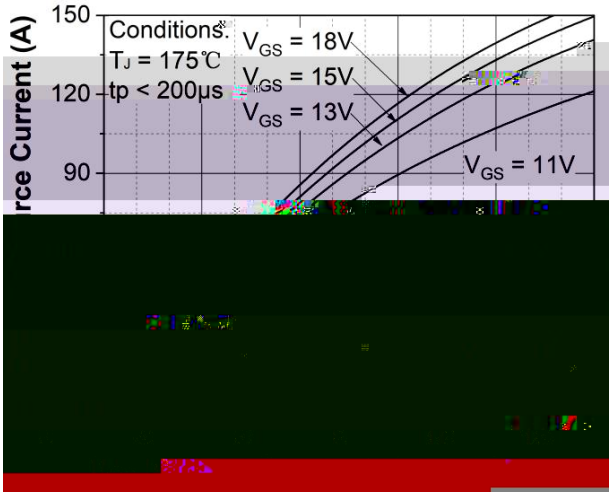

0 uv

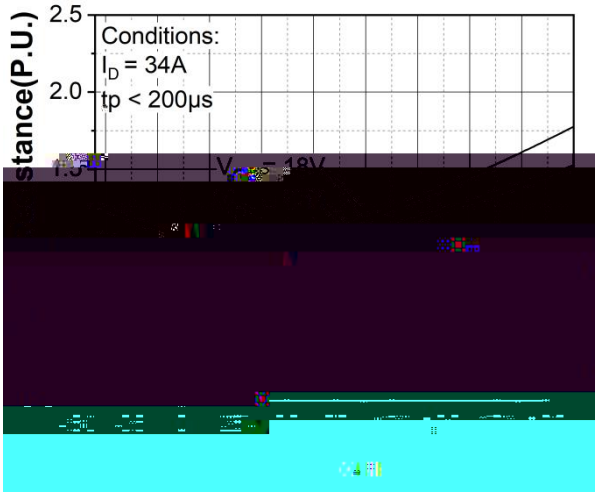
f

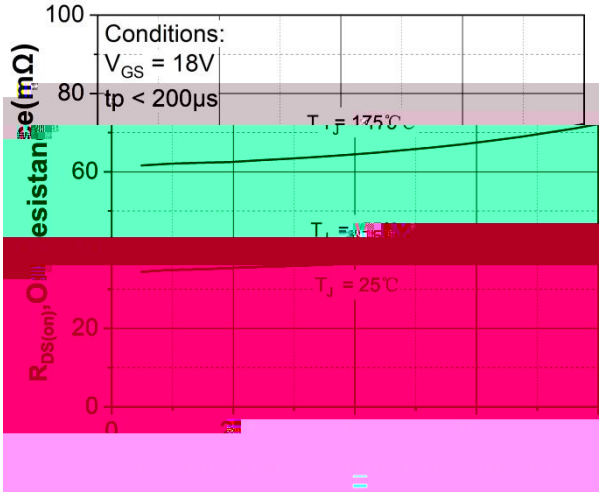


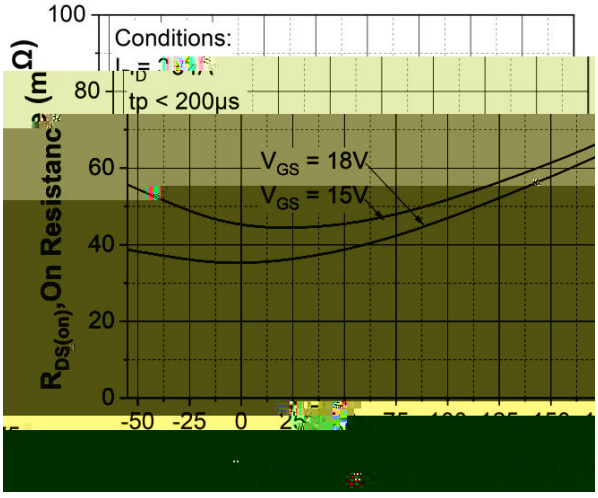

Conditions:
TJ = -55℃
tp < 200μs
VGS = 18V
VGS = 15V
VGS = 13V
VGS = 11V
VGS = 9V
VGS = 7V
150
120
90
30
0
3
6
9
12
15
Drain to Source Voltage (V)

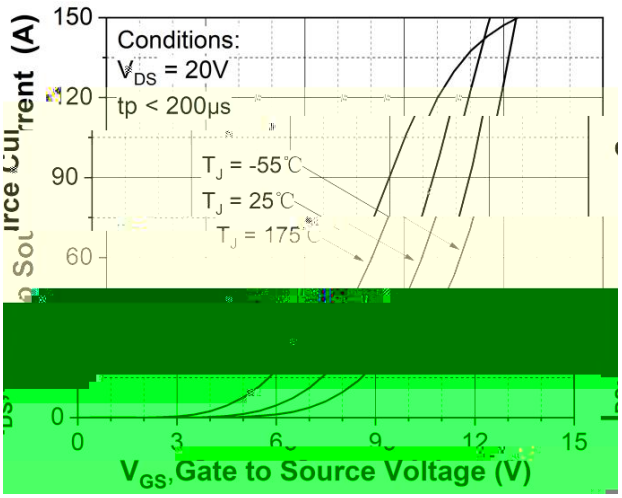

Conditions:
VGS = 18V
VGS = 13V
VGS = 9V
150
120
90
30

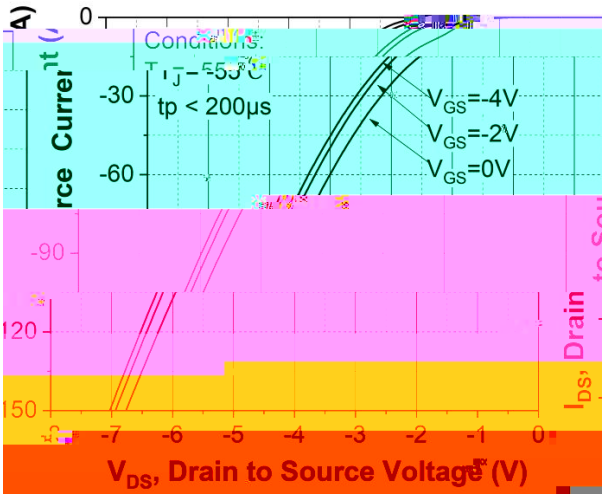

Conditions:
TJ = 175℃
tp < 200μs
VGS = 18V
VGS = 15V
VGS = 13V
VGS = 11V
150
120
90

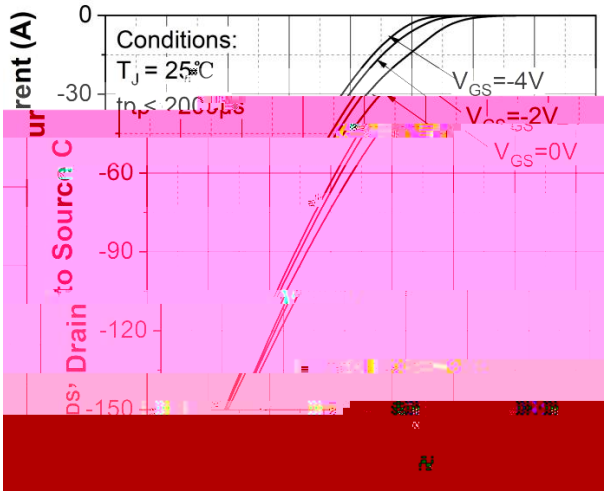

Conditions:
ID = 34A
tp < 200μs
2.5
2.0

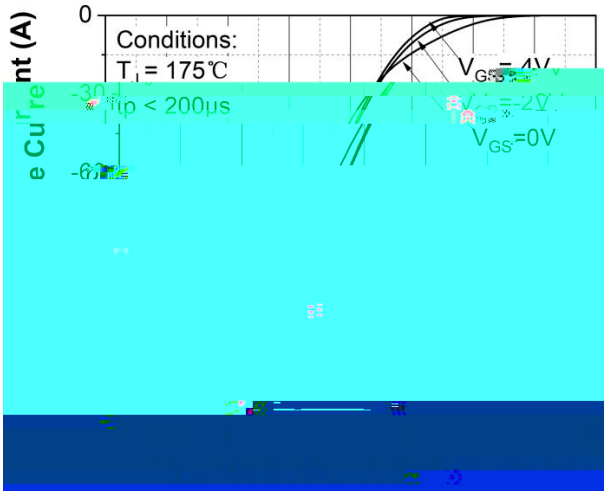

Conditions:
VGS = 18V
tp < 200μs
100
80
60
40
20
0

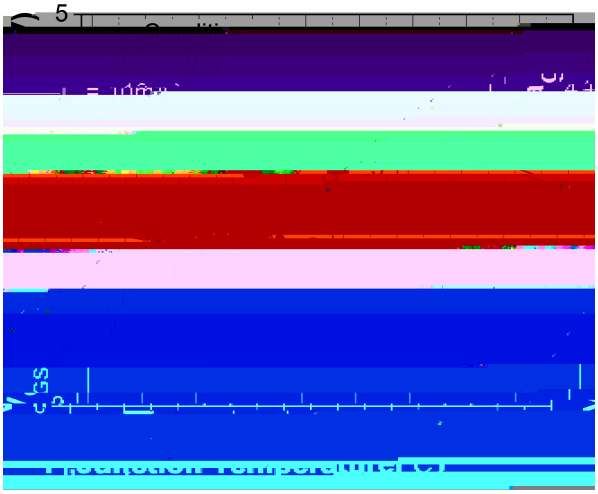

Conditions:
tp < 200μs
VGS = 18V
VGS = 15V
100
80
60
40
20
0
-50
-25
0

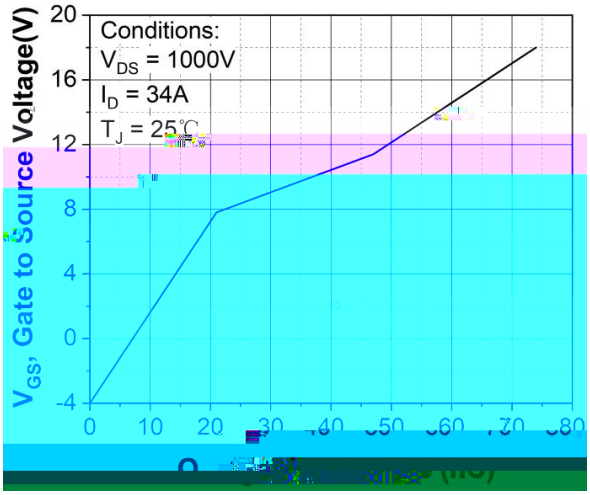

Conditions:
V_{DS} = 20V
tp < 200μs
T_J = -55℃
T_J = 25℃
T_J = 175℃
V_{GS}, Gate to Source Voltage (V)

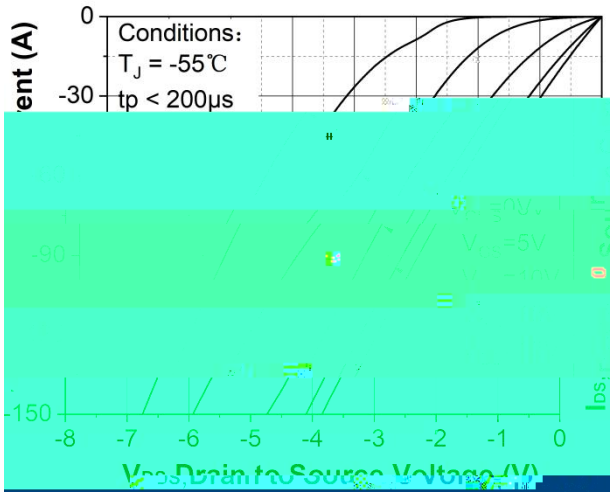

Conditions:
tp < 200μs
V_{GS}=-4V
V_{GS}=-2V
V_{GS}=0V
V_{DS}, Drain to Source Voltage (V)

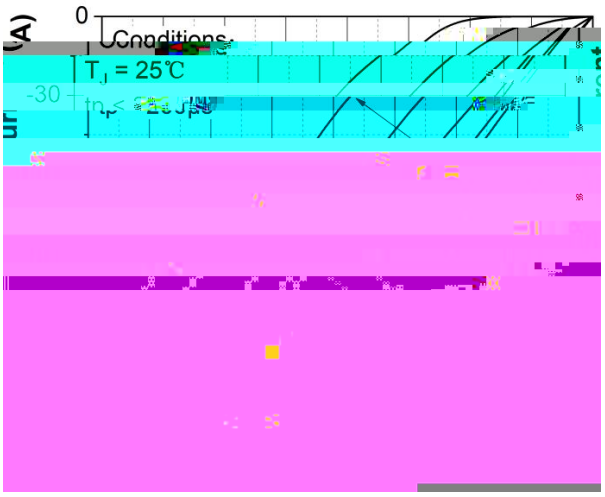

Conditions:
T_J = 25℃
V_{GS}=-4V
V_{GS}=0V

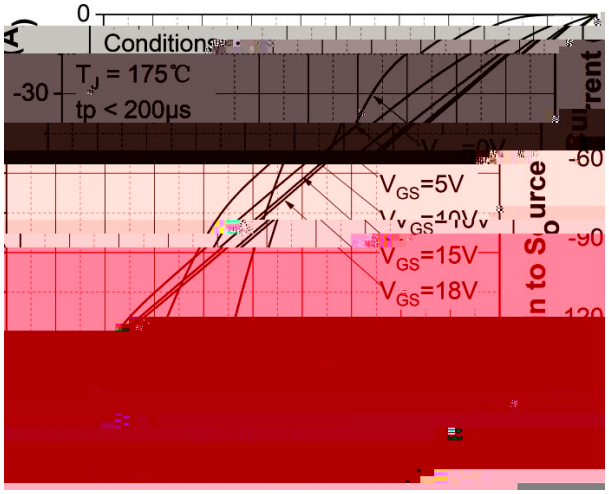

Conditions:
T_J = 175℃
tp < 200μs
V_{GS}=0V

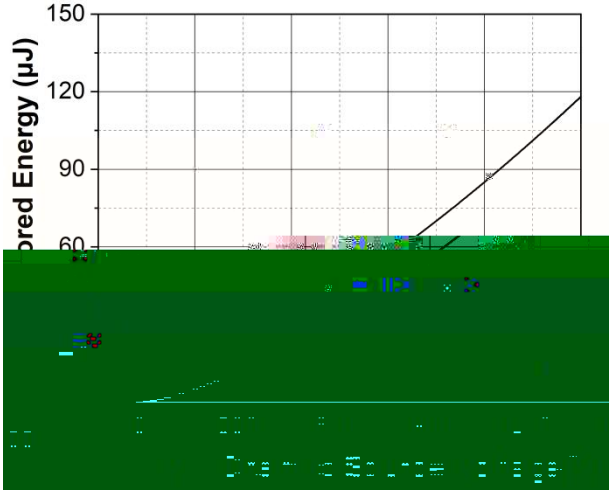


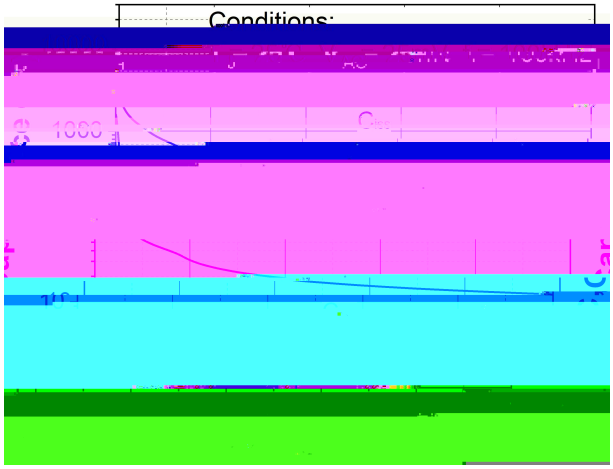

Conditions:
V_{DS} = 1000V
I_D = 34A
T_J = 25℃
V_{GS}, Gate to Source Voltage(V)

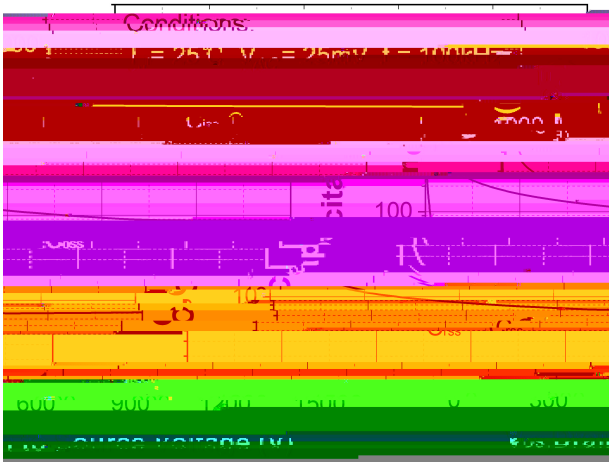

Conditions:
T_J = -55℃
tp < 200μs
0
-30
-90
-150
-8
-7
-6
-5
-4
-3
-2
-1
0

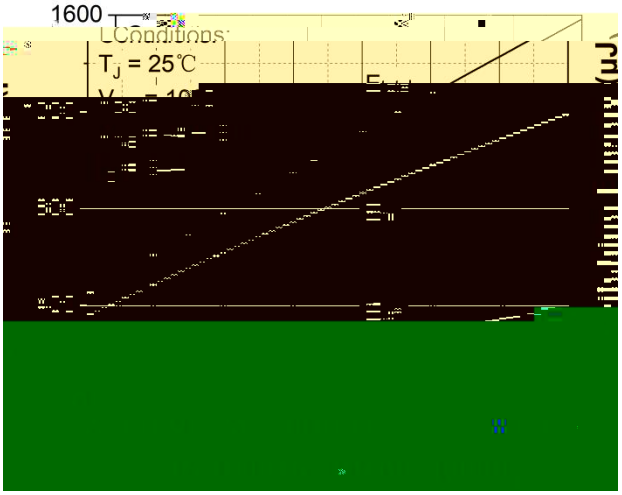

Conditions:
T_J = 25℃
0
-30

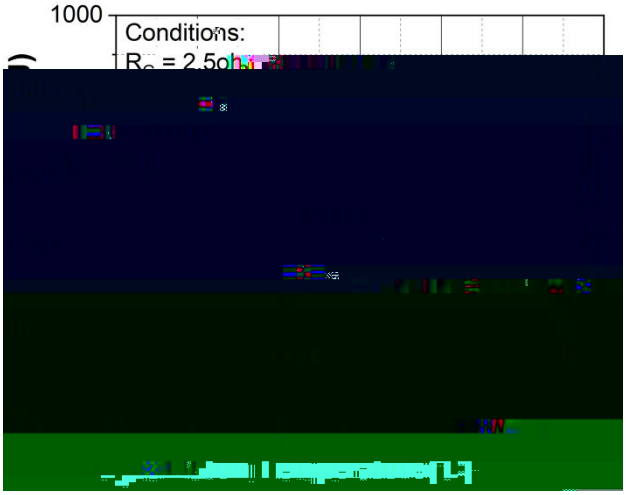

Conditions:
T_J = 175℃
tp < 200μs
0
-30
-60
-90
-120
V_{GS}=5V
V_{GS}=10V
V_{GS}=15V
V_{GS}=18V

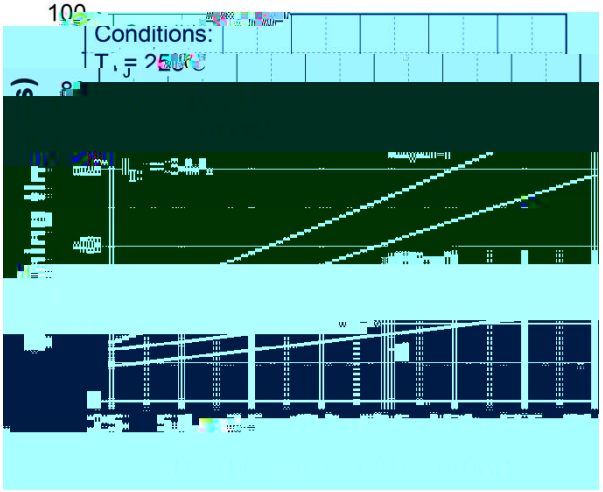

150
120
90
60

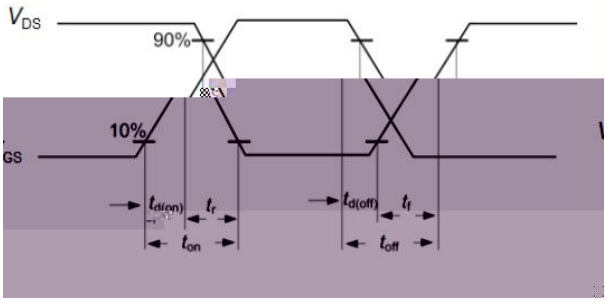

Conditions:
1000

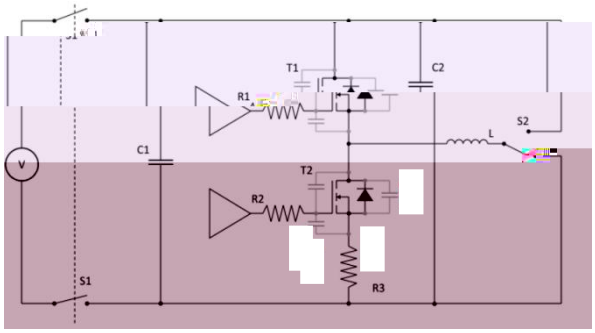

Conditions:
100

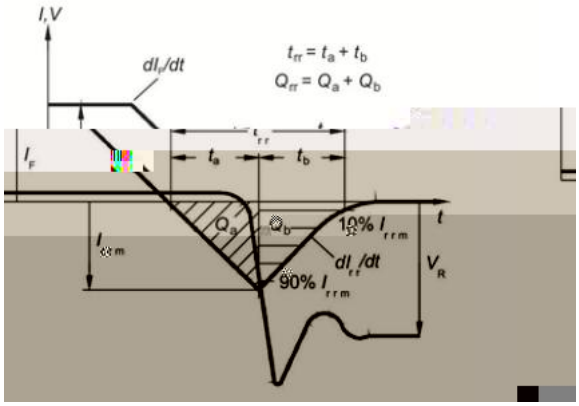

1600
Conditions:
T_J = 25℃


1000
Conditions:


Conditions:


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


T1
C2
R1
S2
L
C1
V
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