SICHAIN

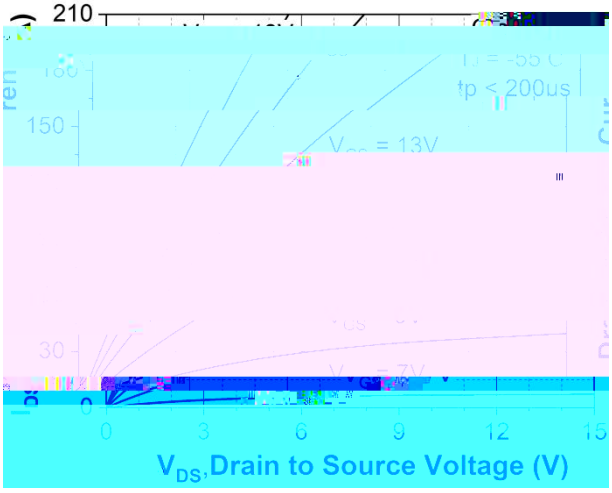
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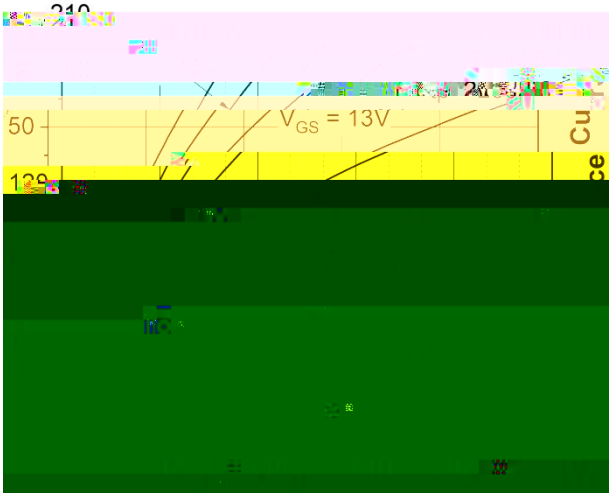
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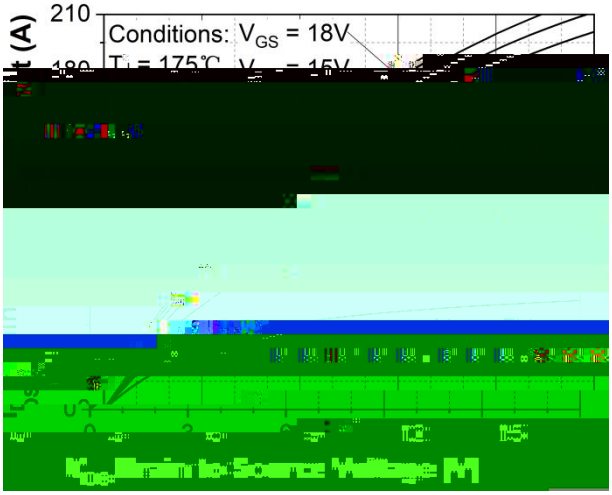
Halogen-Free

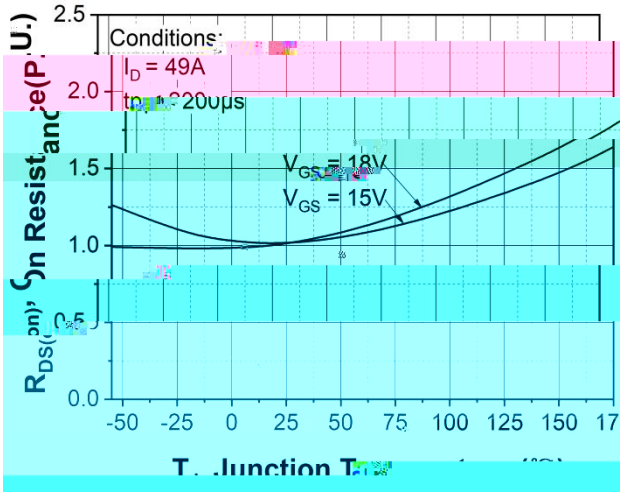
6 R

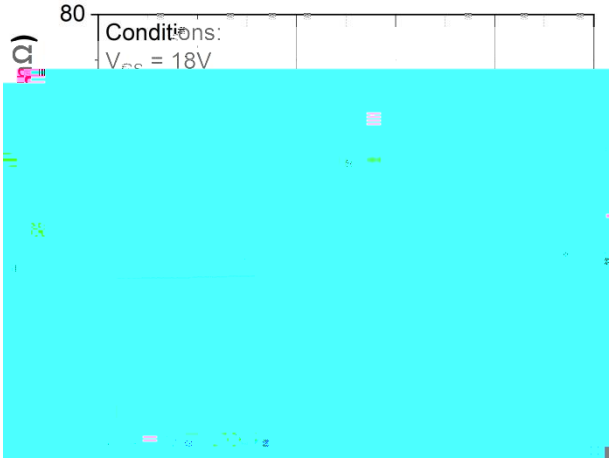
QDP

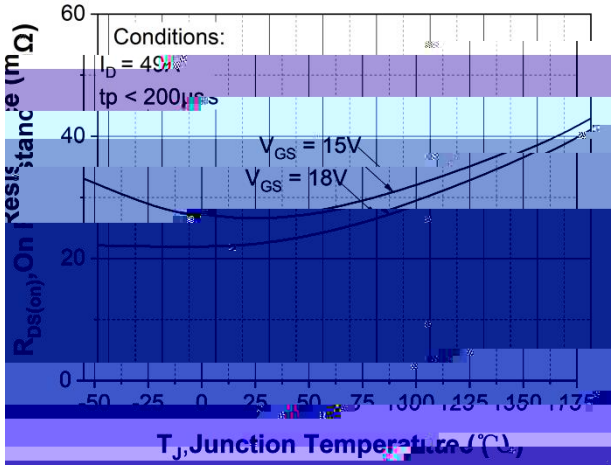

210
150
30
0
3
6
9
12
15
tp < 200us
V_{GS} = 13V
V_{DS},Drain to Source Voltage (V)

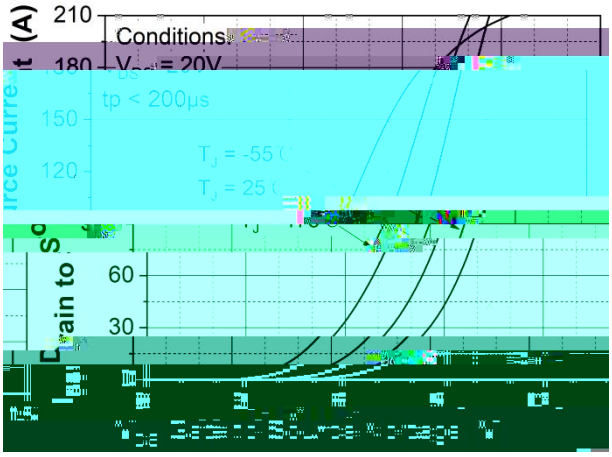

50
V_{GS} = 13V

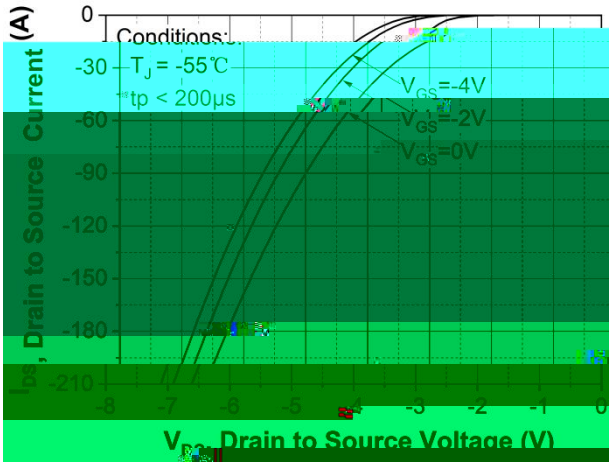

210
Conditions: V_{GS} = 18V

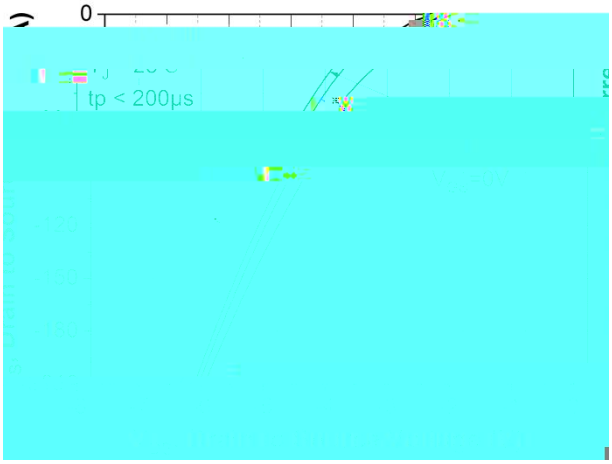

2.5
2.0
1.5
1.0
0.0
Conditions:
I_D = 49A
V_{GS} = 18V
V_{GS} = 15V
-50
-25
0
25
50
75
100
125
150

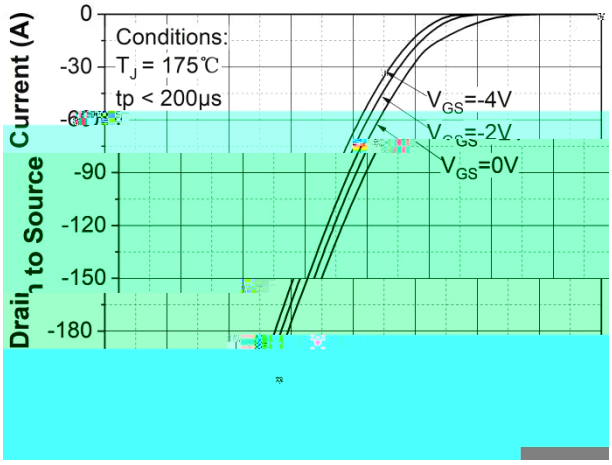

80
Conditions:

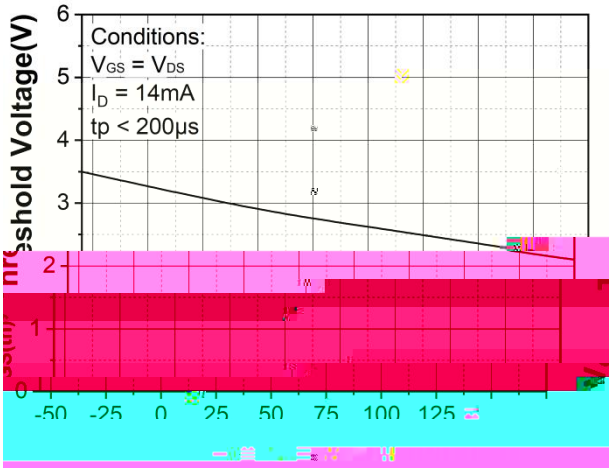

60
40
20
0
Conditions:
V_{GS} = 15V
V_{GS} = 18V
T_J,Junction Temperature (°C)

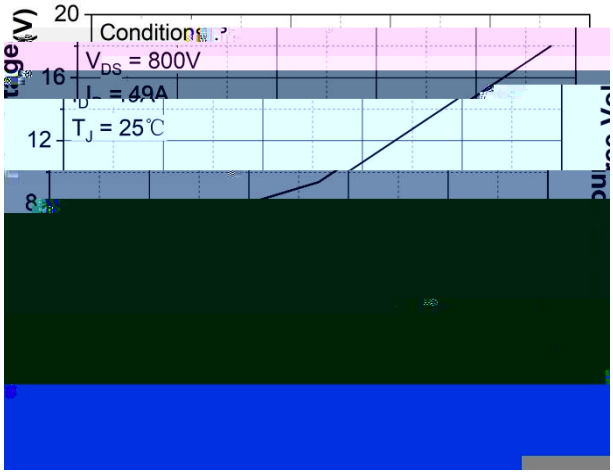

Conditions:
tp < 200μs
T_J = -55℃
T_J = 25℃
60
30


Conditions:
T_J = -55℃
tp < 200μs
V_GS=-4V
V_GS=-2V
V_GS=0V
-30
-60
-90
-120
-150
-180
-210
-8
-7
-6
-5
-2
-1
Drain to Source Current
V_DS Drain to Source Voltage (V)

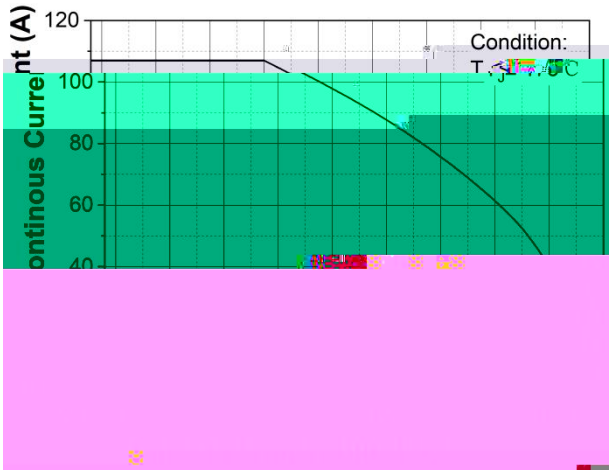

tp < 200μs

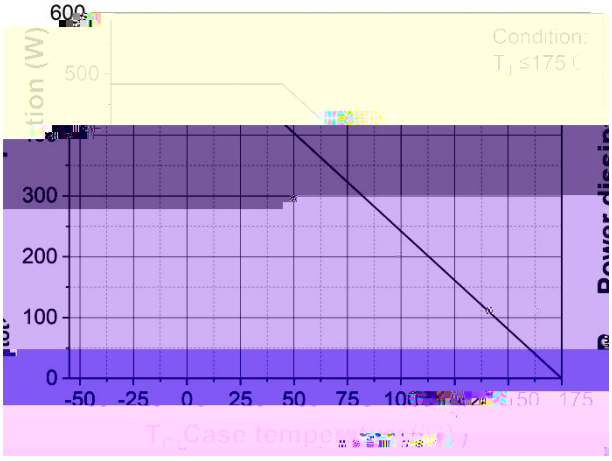

Conditions:
T_J = 175℃
tp < 200μs
V_GS=-4V
V_GS=-2V
V_GS=0V
-30
-90
-120
-150
-180
Current (A)
to Source

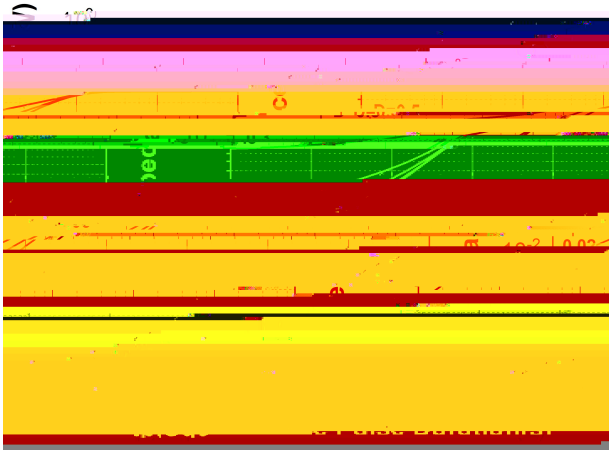

Conditions:
V_GS = V_DS
I_D = 14mA
tp < 200μs
6
5
4
3
2
1
0
-50
-25
0
25
50
75
100
125

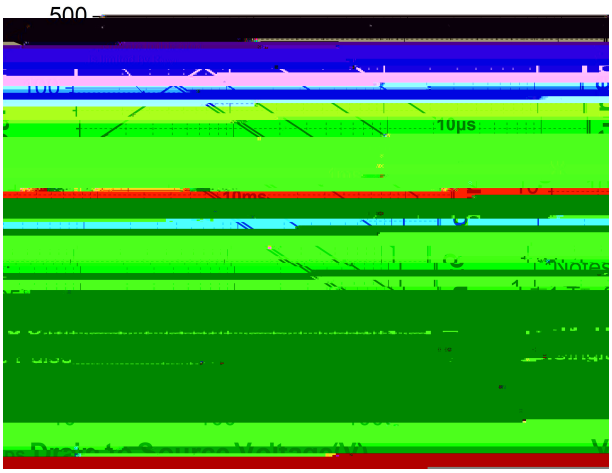

Conditions:
V_DS = 800V
T_J = 25℃
20
16
12
8

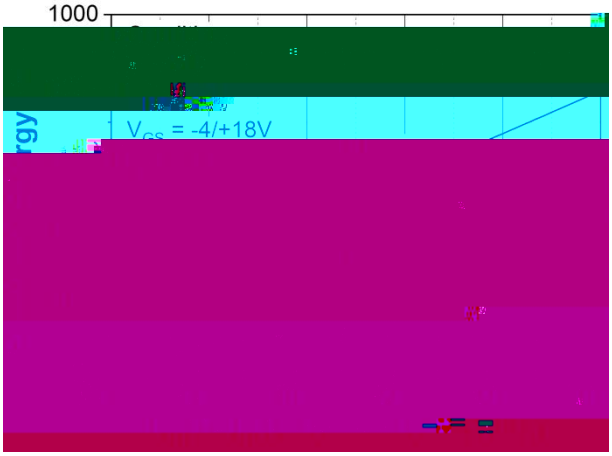


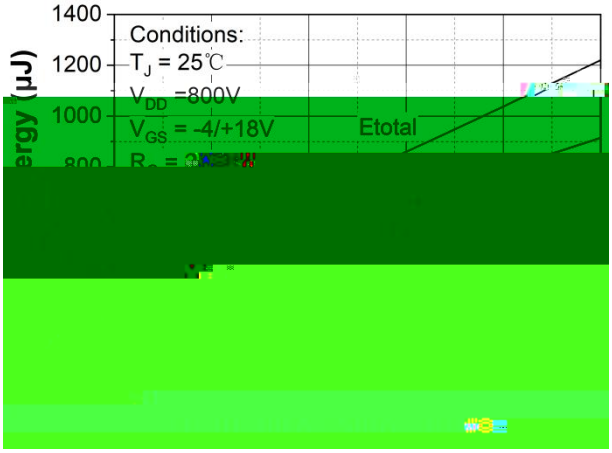

Condition:
120
100
80
60
40

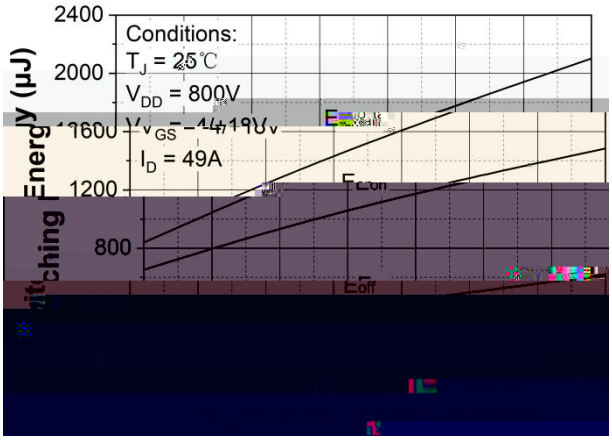

600
500
300
200
100
0
-50
-25
0
25
50
75
150
175

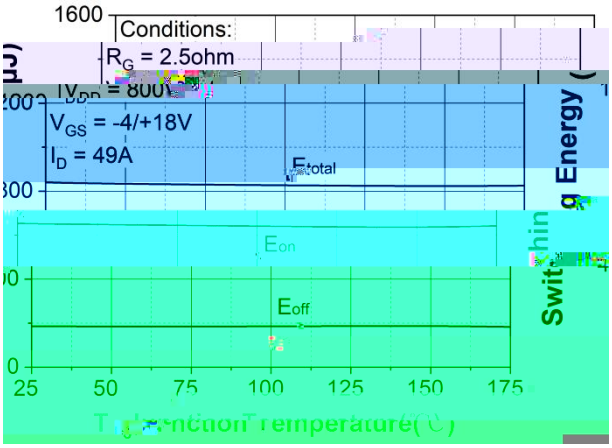


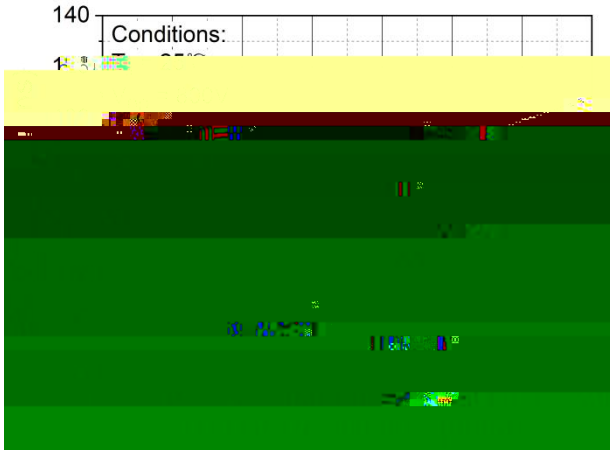

10μs

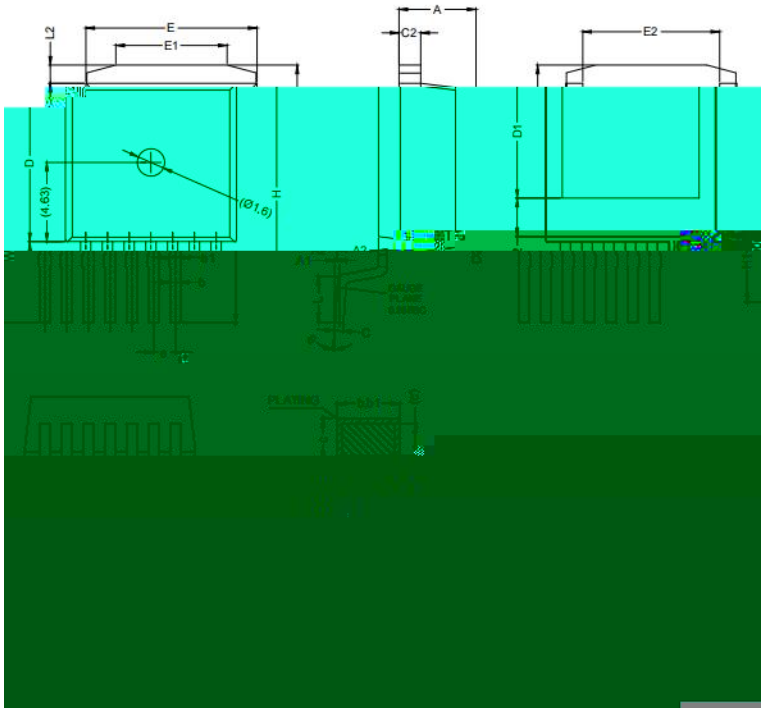

1000
V = -4/+18V


1400
Conditions:
T = 25℃
V =800V
V = -4/+18V
1200
1000
Etotal


Conditions:
T_J = 25℃
V_{DD} = 800V
V_{GS} = -4/+18V
I_D = 49A
Eoff


Conditions:
R_G = 2.5ohm
V_{GS} = -4/+18V
I_D = 49A
Etotal
Eon
Eoff
25
50
75
100
125
150
175

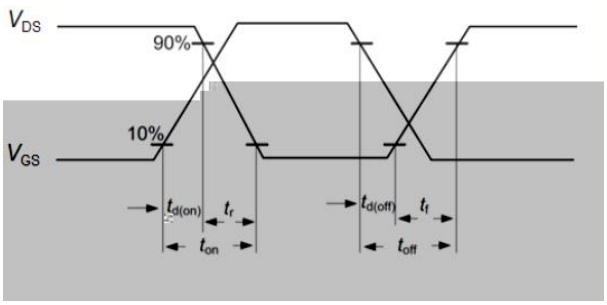

140
Conditions:

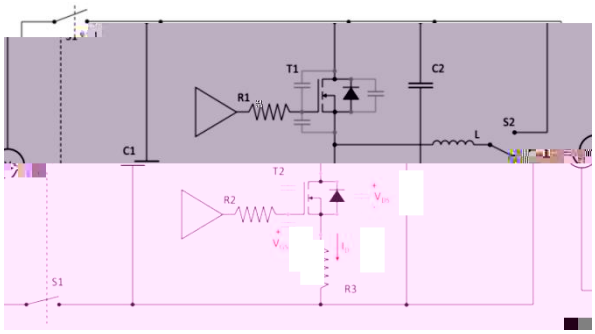


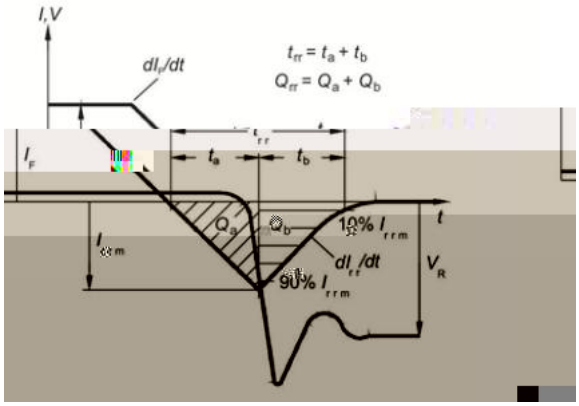
NOTE ;

1. DIMENSIONING & TOLI[illegible] CONFIRM TO ASME Y14.5M-1994.
2. ALL DIMENSIONS ARE IN M[illegible] UNLESS
[illegible] FINISHING Ra=1.8~2.2 MICRONS
7. MISM[illegible] MATCH MAX=0.05 (CAVITY TO HOLE AXIS))
[illegible] DIMENSION DO NOT INCLUDE BURR OR MOLD FLASH.

Items	Min	Max
A	4.30	4.70
A1	-	0.25
A2	1.90	2.10
b	0.80	0.80
c	0.42	0.62
c'	0.40	0.60
c2	1.07	1.47
D	9.05	9.45
D1	7.[illegible]	7.98
D2	2.05	2.45
e	1.27 BSC	
E	9.80	10.20
E1	6.30	6.70
E2	7.80	8.20
L	2.48	2.88
L2	0.87	1.27
H	14.87	15.27
H1	4.55	4.95


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


T1
C2
R1
S2
L
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}
I_{rrm}
dI_{rr}/dt
90% I_{rrm}
V_R
t