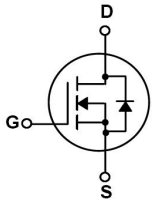
TO-220FL N MOS N-CHANNEL MOSFET in a TO-220FL Plastic Package.

$R_{DS(on)}$ C_{rss}

Low $R_{DS(on)}$,low gate charge, low C_{rss}, fast switching.

D

Automotive DC Motor Control and Class D Amplifier.



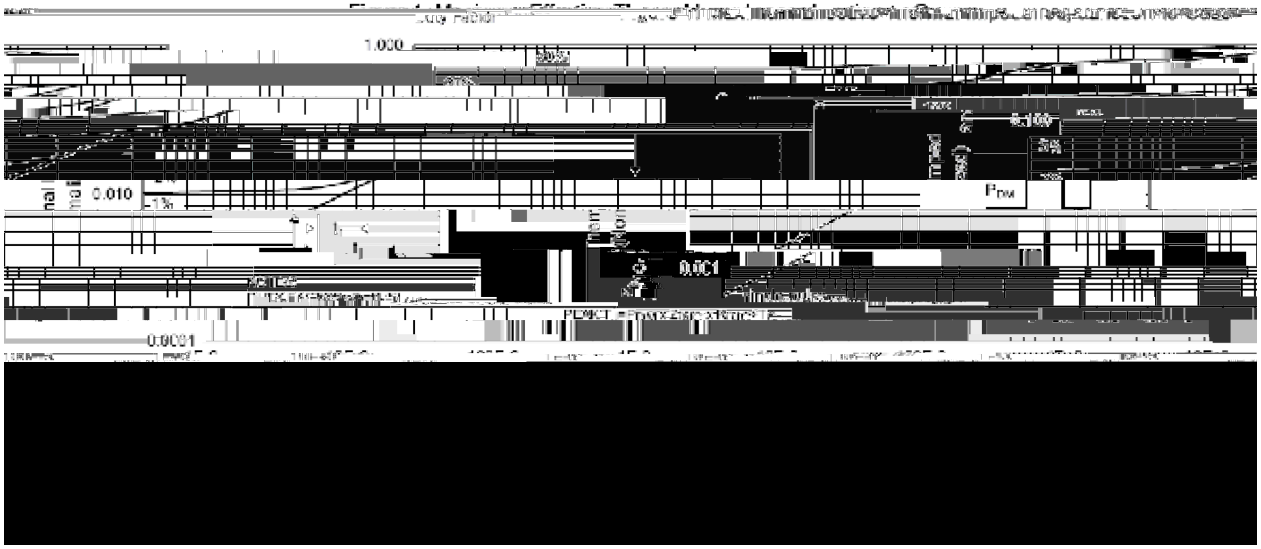


PIN1 G PIN 2 D PIN 3 S

See Marking Instructions.

Rev.A Sep.-2017

		Test Conditions				Unit
		V_{DS}=15V, I_D =7.5A				S
Reverse Transfer Capacitance	C_{rss}	V_{GS}=0V V_{DS} = 25V f = 1.0MHz		25.5		pF
Resistive Switching Characteristics						
Turn-on Delay Time	$t_{d(ON)}$	I_D=15A V_{DD} =250V V_{GS}=10V R_G=6.1Ω		15		ns
Rise Time	t_r			30		
Turn-Off Delay Time	$t_{d(OFF)}$			50		
Fall Time	t					



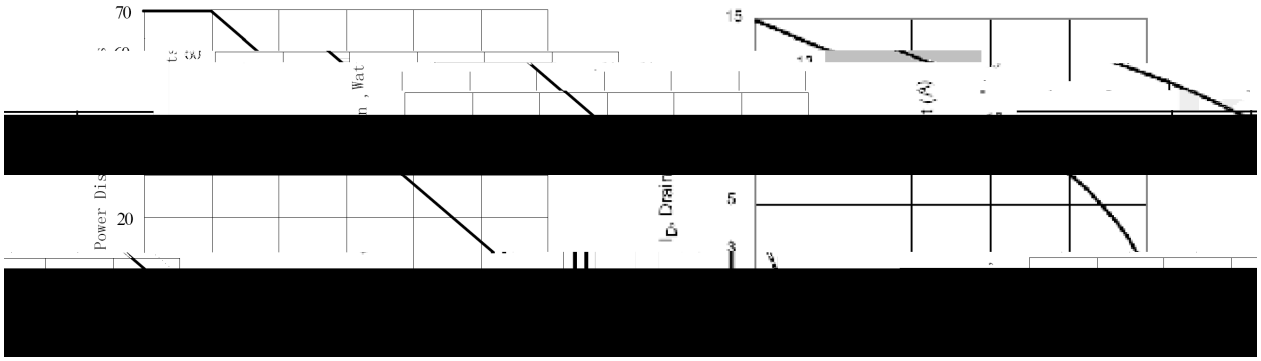


Figure 4. Typical Output Characteristics

Figure 5. Typical Drain-to-Source ON Resistance vs Gate Voltage and Drain Current

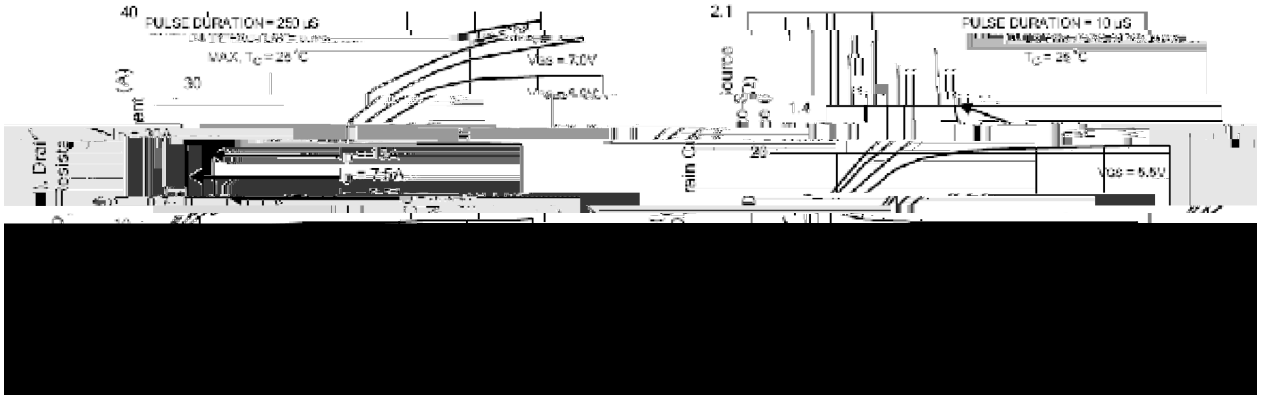


Figure 6. Maximum Peak Current Capability

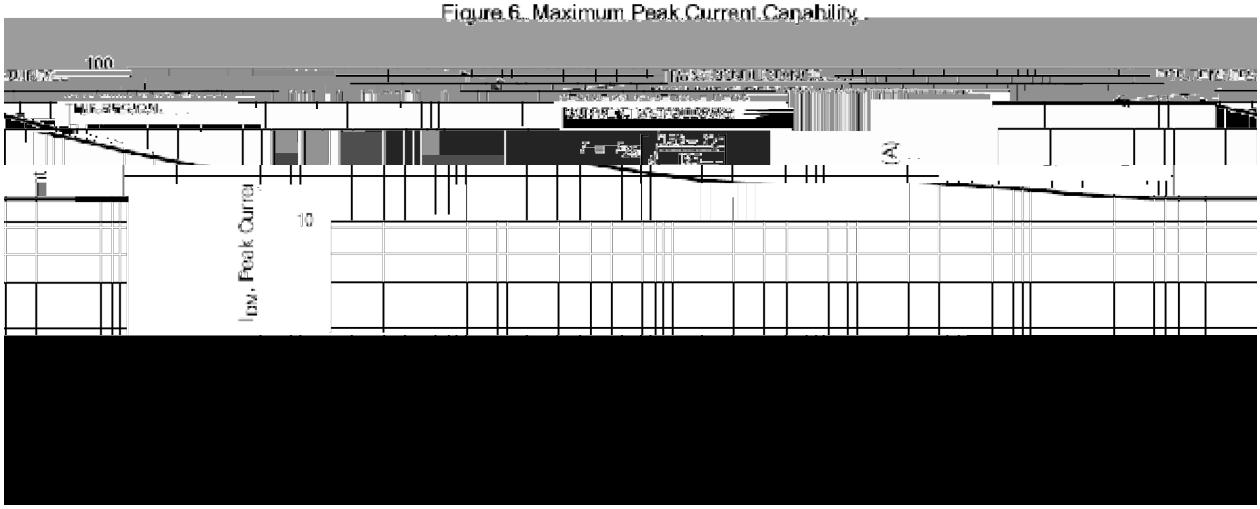
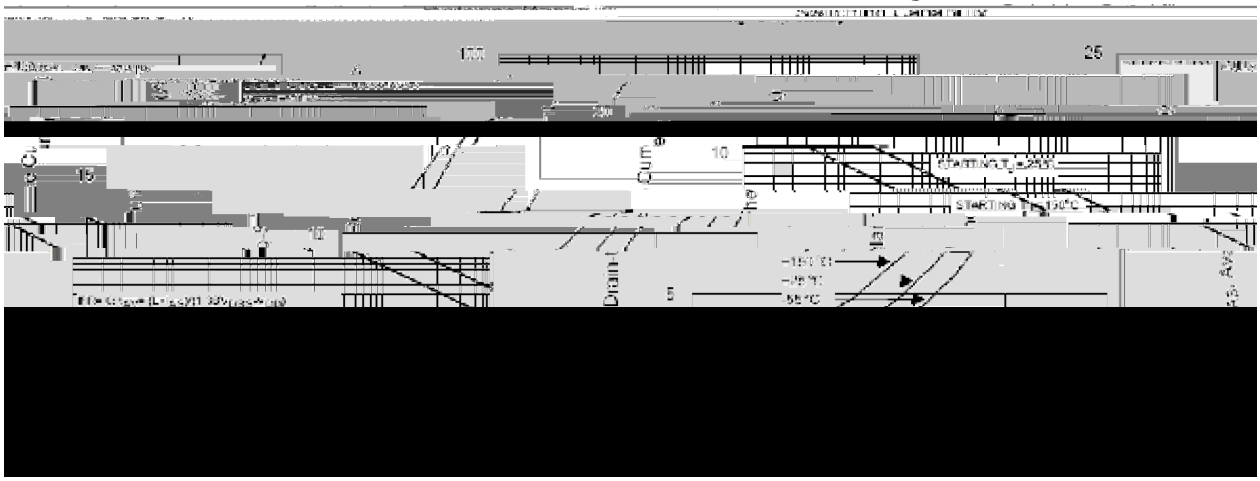
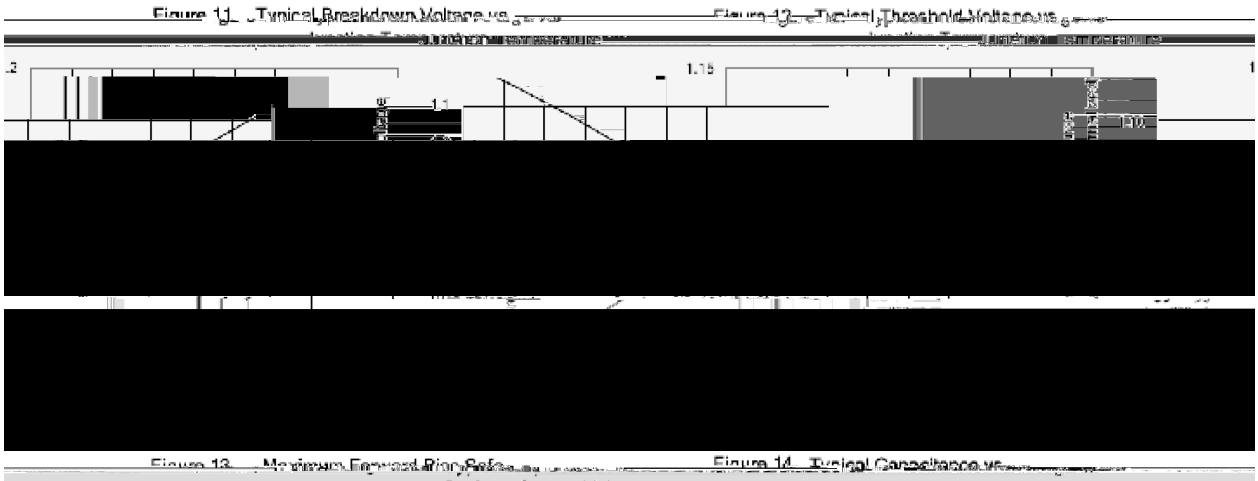


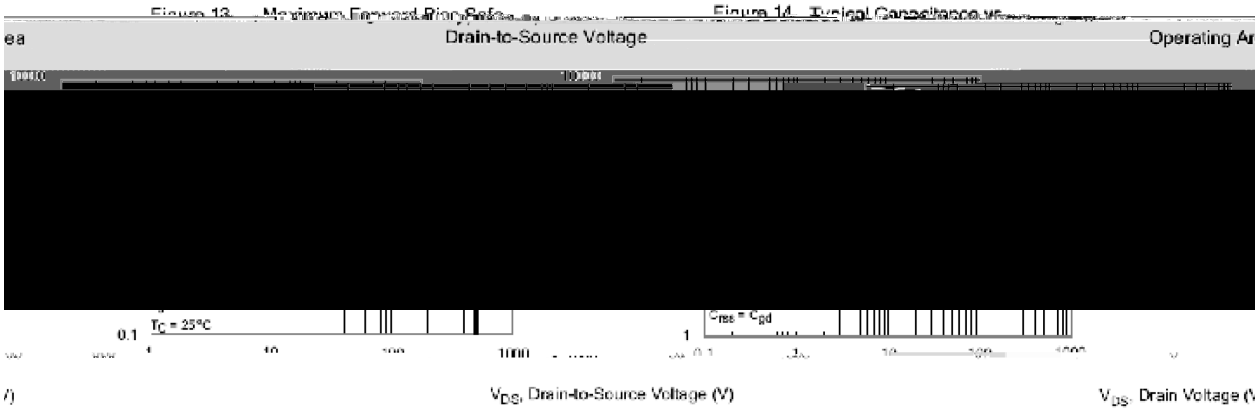
Figure 7. Typical Transfer Characteristics

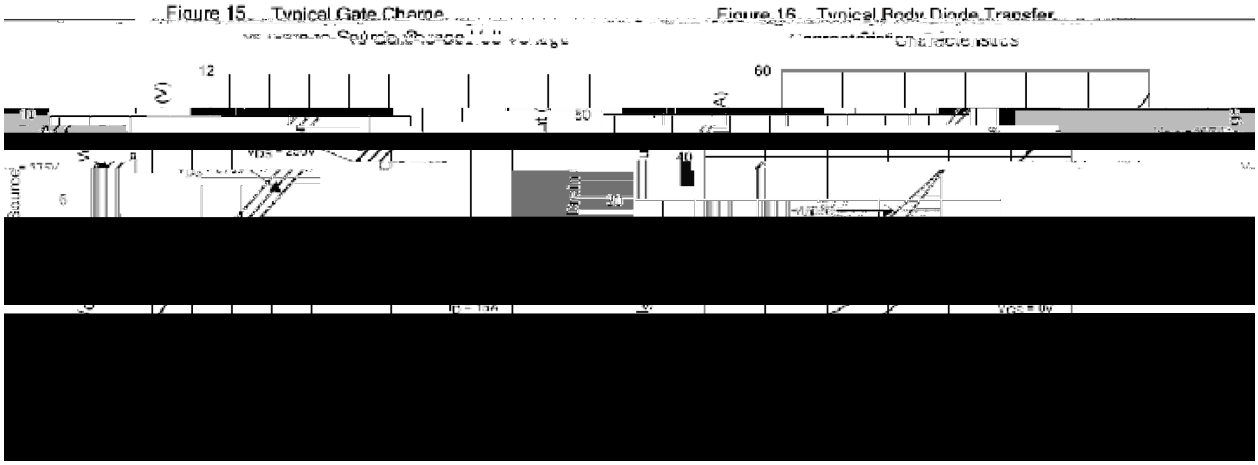
Figure 8. Unclamped Inductive



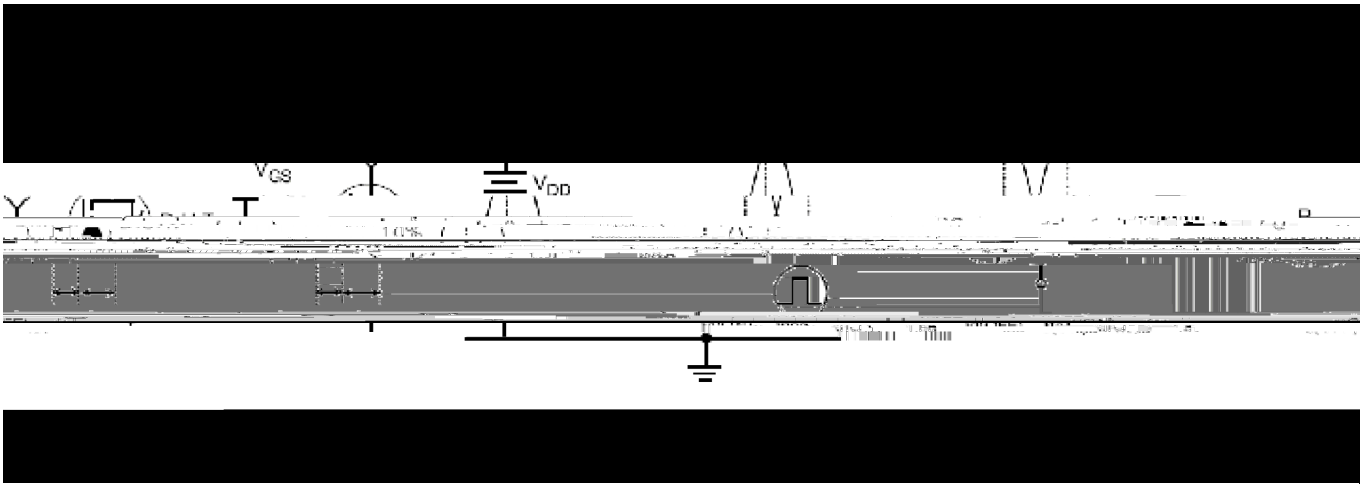


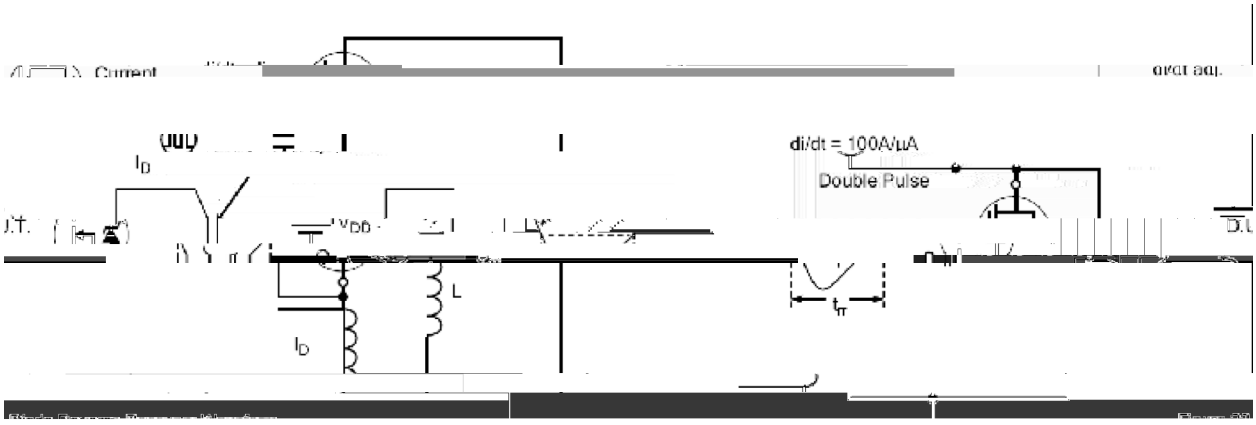


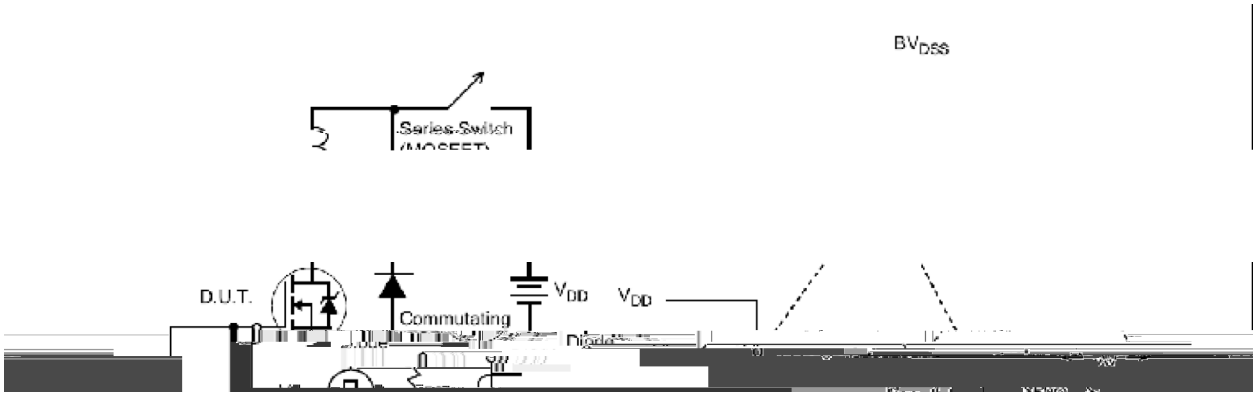

Drain-to-Source Voltage
Operating Ar
0.1
T_C = 25°C
1
$C_{rss} = C_{gd}$
V_{DS}, Drain-to-Source Voltage (V)
V_{DS}, Drain Voltage (V

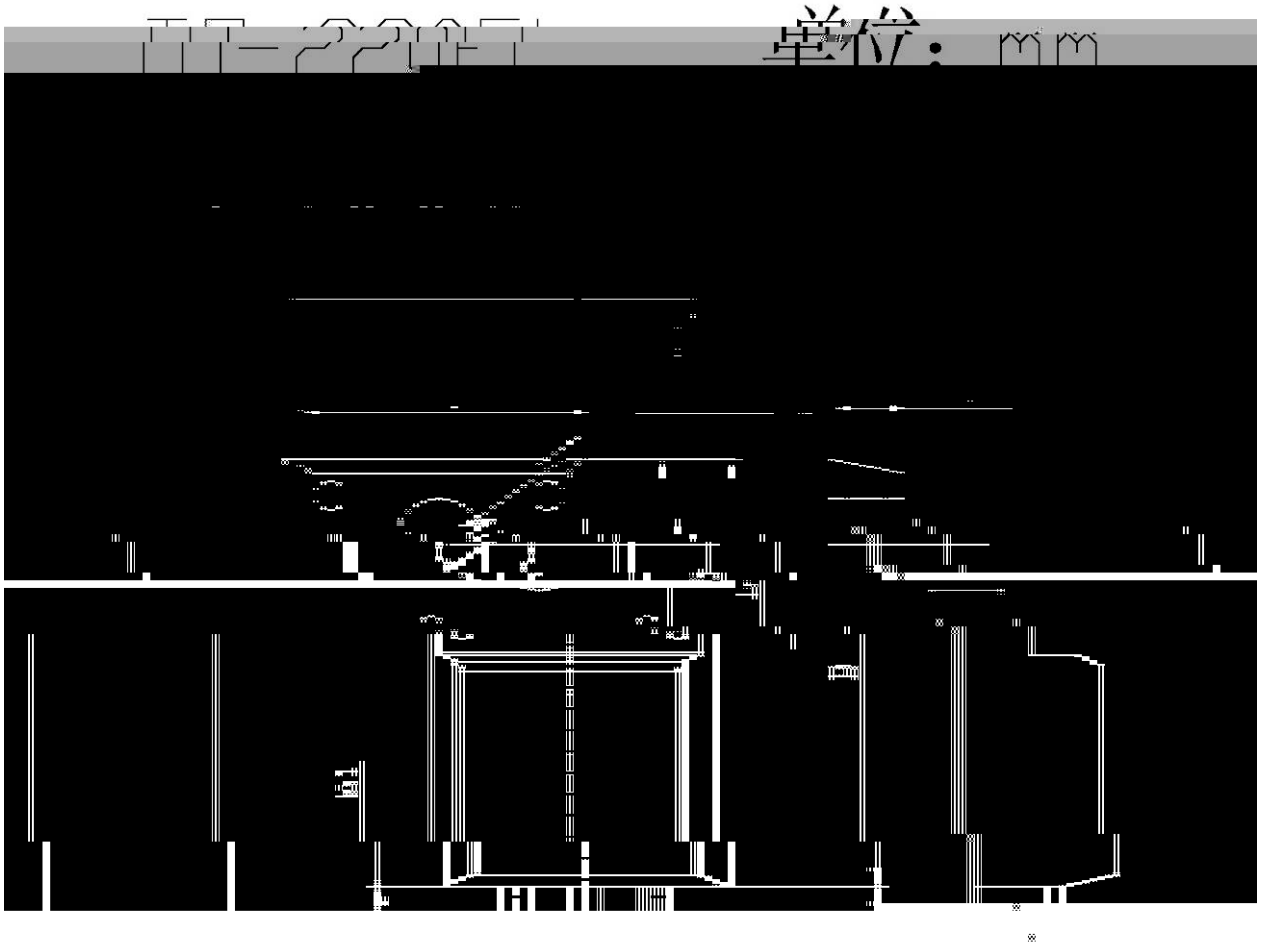


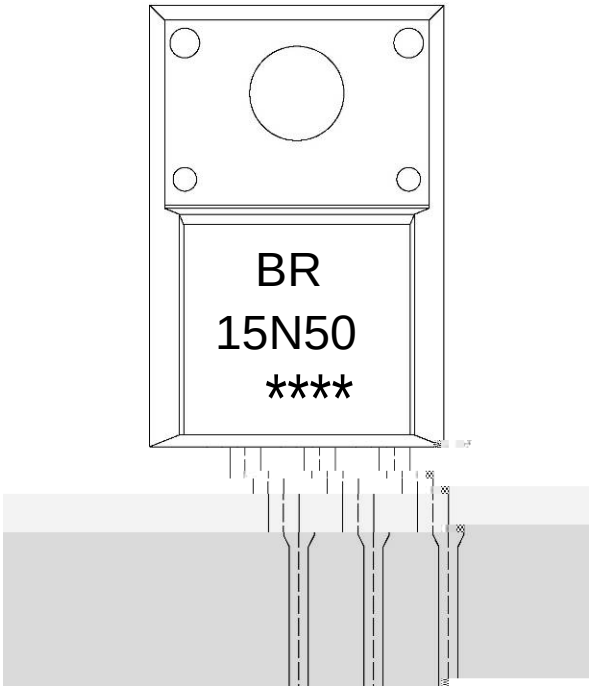

V_{DS}
I_D
Region
V_{GS}
V_{DD}


V_{GS}
V_{DD}


I_D
di/dt = 100A/μA
Double Pulse
V_{DD}
L
I_D
t_{rr}


BV_{DSS}
Series Switch
D.U.T.
Commutating
V_{DD}
V_{DD}





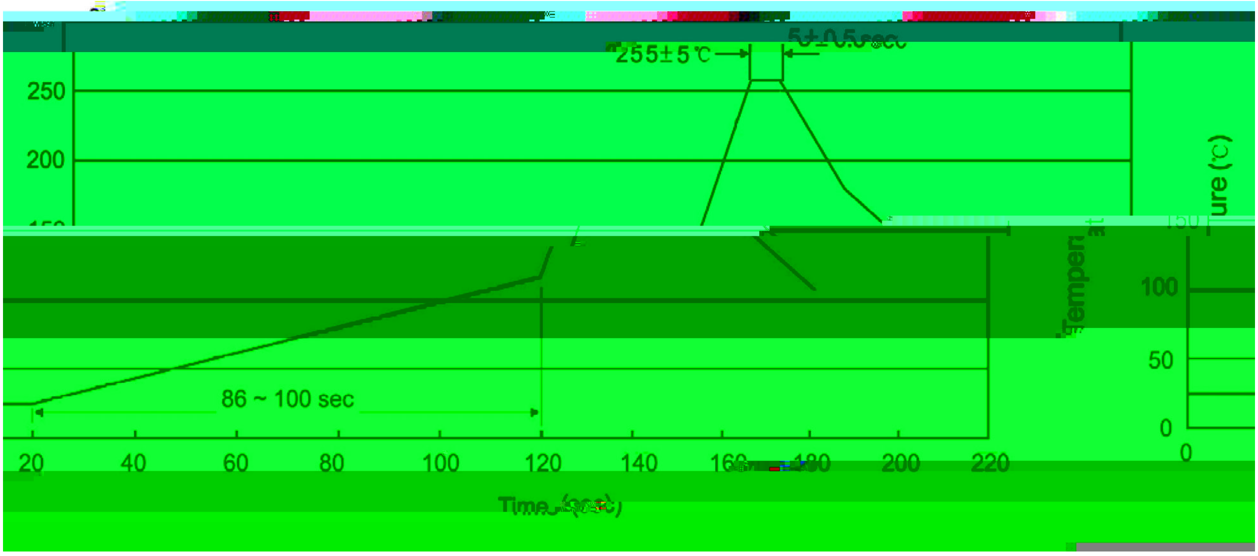
BR

15N50

****

Note:

BR:	Company Code
15N50:	Product Type.
****:	Lot No. Code, code change with Lot No.



Note:

1 25 150 60 90sec;

2 255±5 5±0.5sec;

3 2 10 /sec.

1.Preheating:25~150 , Time:60~90sec.

2.Peak Temp.:255±5 , Duration:5±0.5sec.

3. Cooling Speed: 2~10 /sec.

270±5 10±1 sec.

Temp.:270±5 Time:10±1 sec

/ TUBE