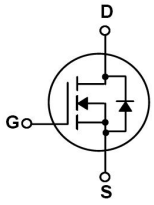
TO-220FL N MOS N-CHANNEL MOSFET in a TO-220FL Plastic Package.

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

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

D

Automotive DC Motor Control and Class D Amplifier.

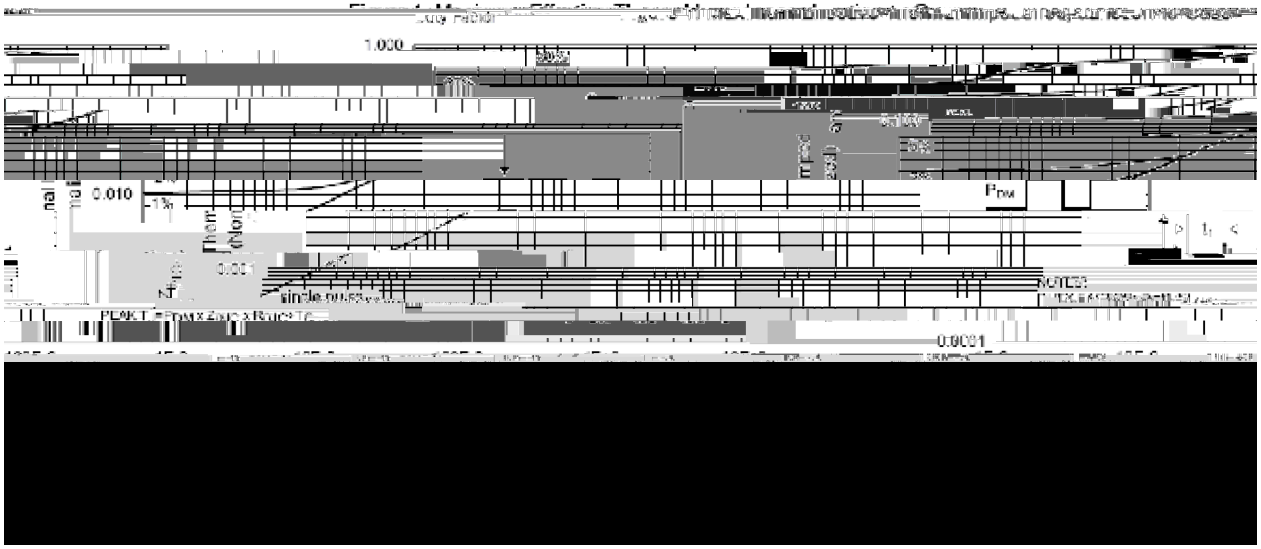


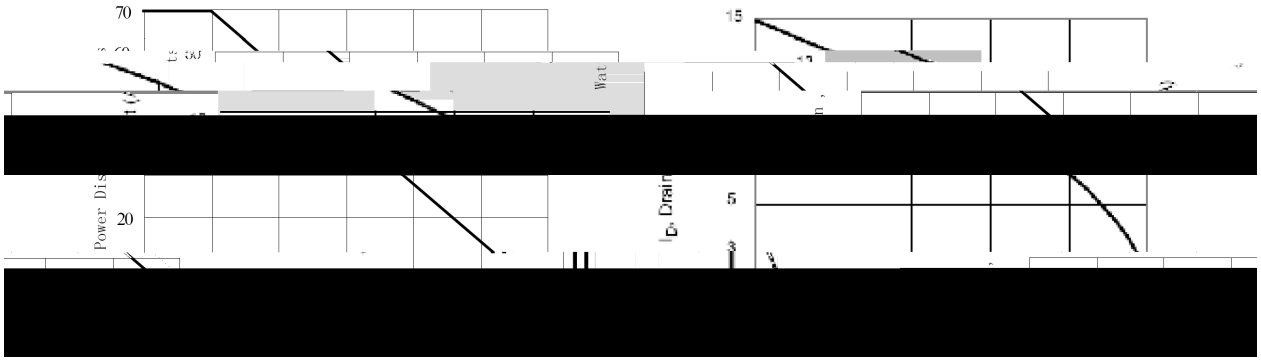
PIN1 G PIN 2 D PIN 3 S

See Marking Instructions.

Rev.A Sep.-2017

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Dynamic Characteristics						
Forward Transconductance	g_{fs}	V_{DS}=15V, I_D =7.5A		18		S
Input Capacitance	C_{iss}	V_{GS}=0V V_{DS} = 25V f = 1.0MHz		2400		pF
Output Capacitance	C_{oss}			235		
Reverse Transfer Capacitance	C_{rss}			25.5		
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					





ce Figure 4. Typical Output Characteristics Figure 5. Typical Drain-to-Source ON Resistance vs Gate Voltage and Drain Current

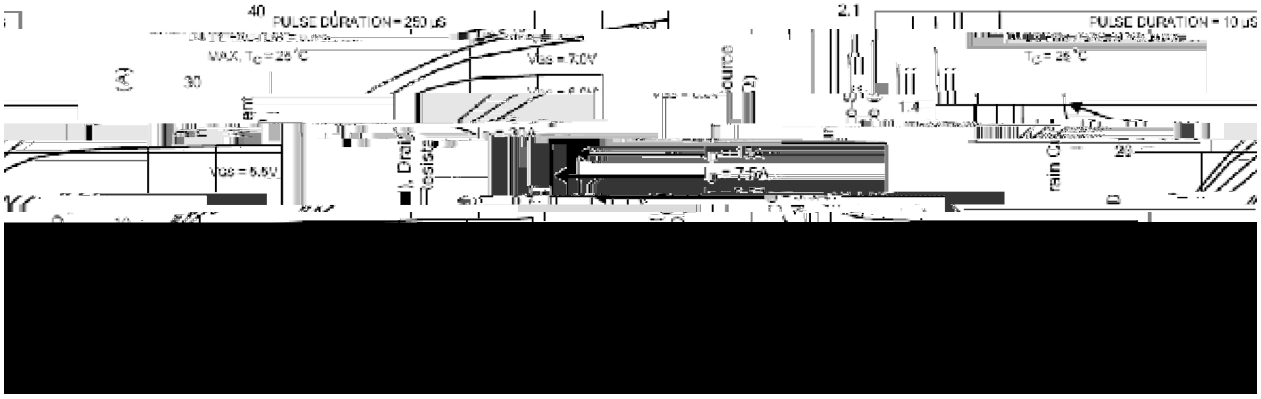


Figure 6. Maximum Peak Current Capability

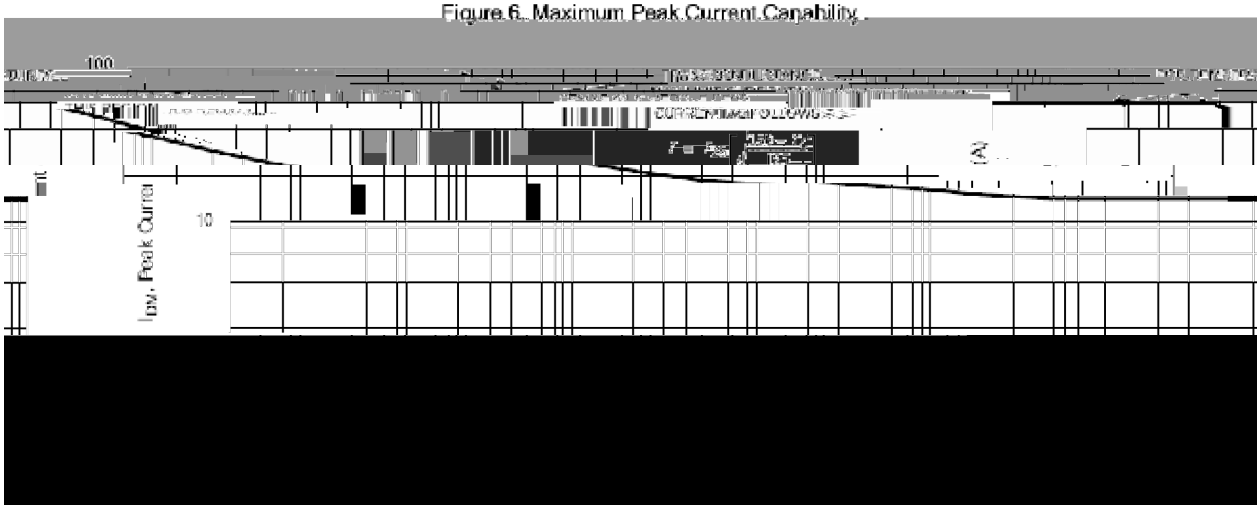
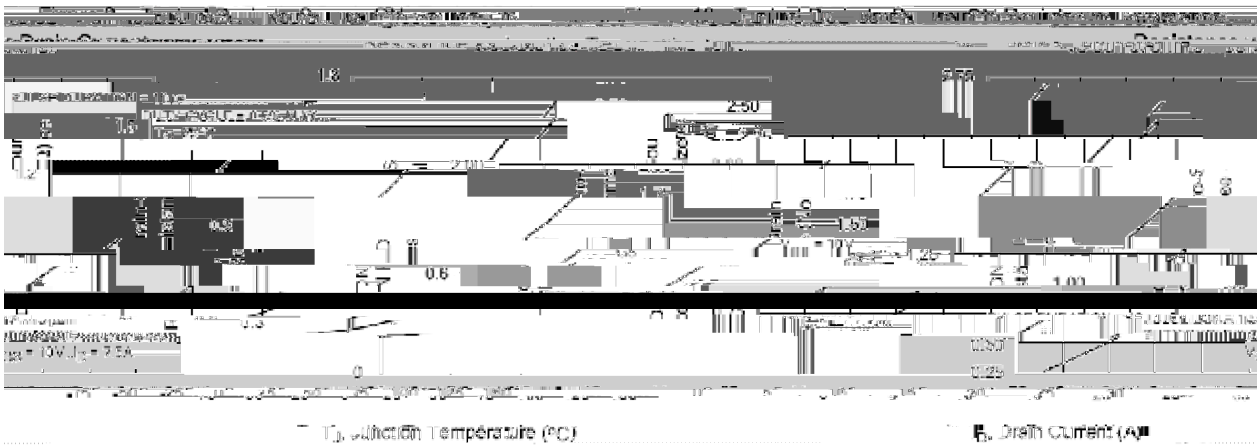
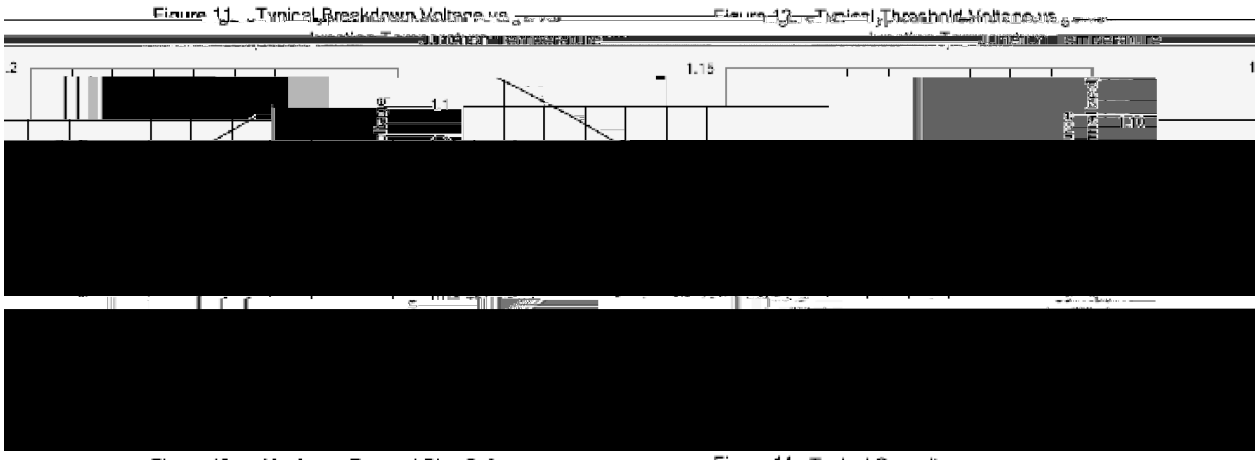
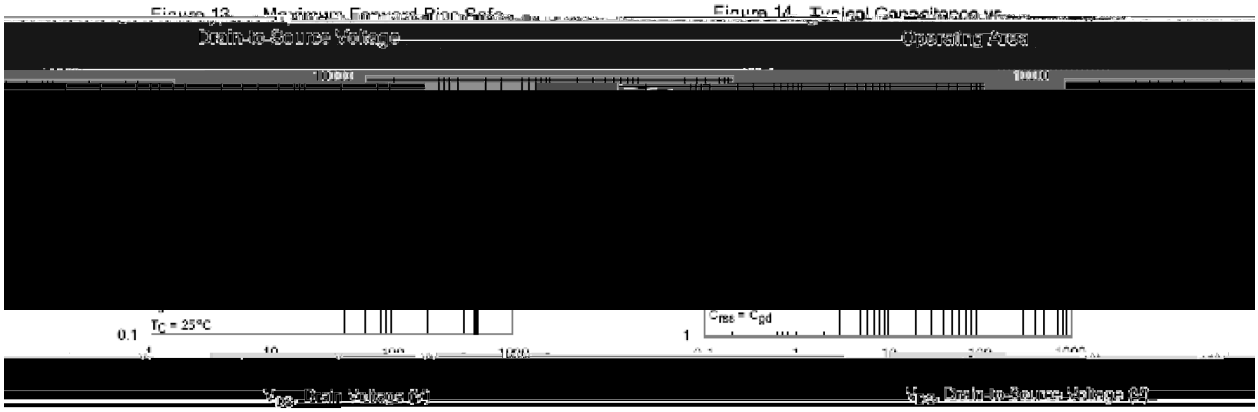


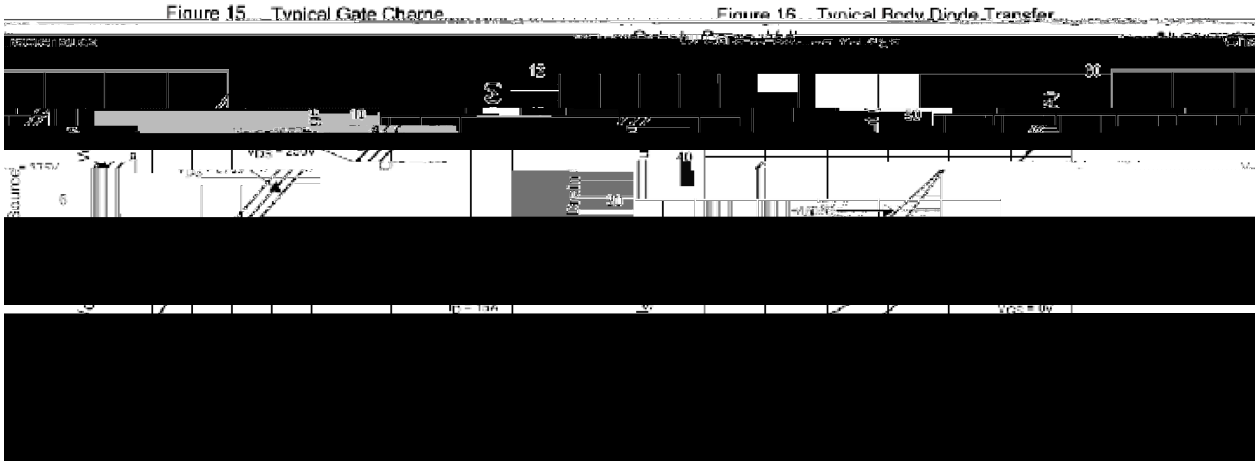
Figure 7. Typical Transfer Characteristics

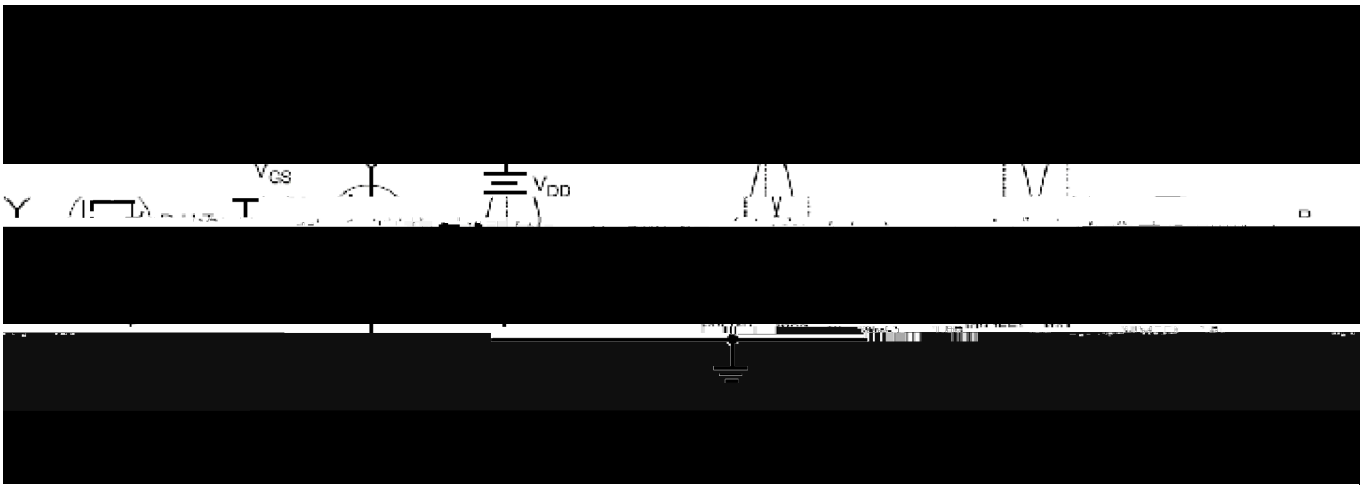
Figure 8. Unclamped Inductive

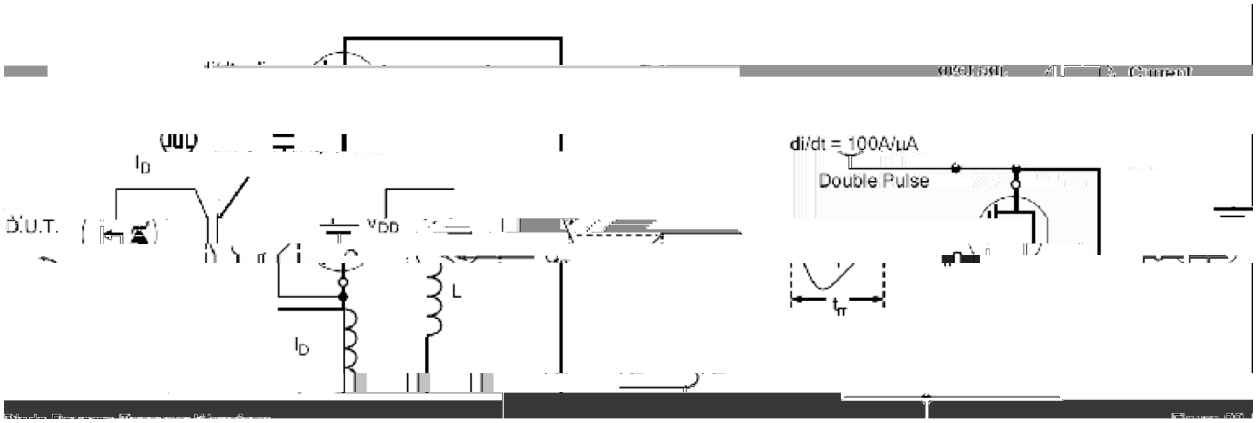


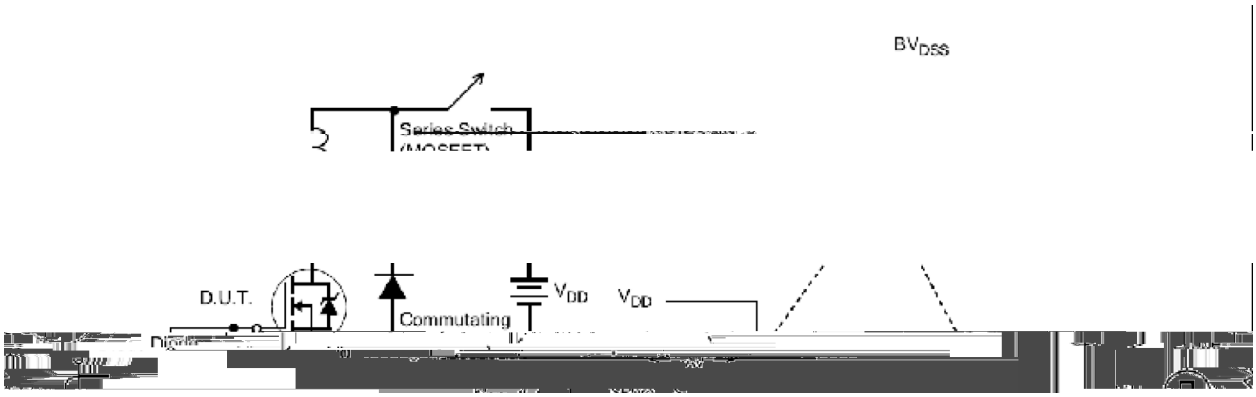



Drain-to-Source Voltage
Operating Area
T_C = 25°C
$C_{rss} = C_{gd}$



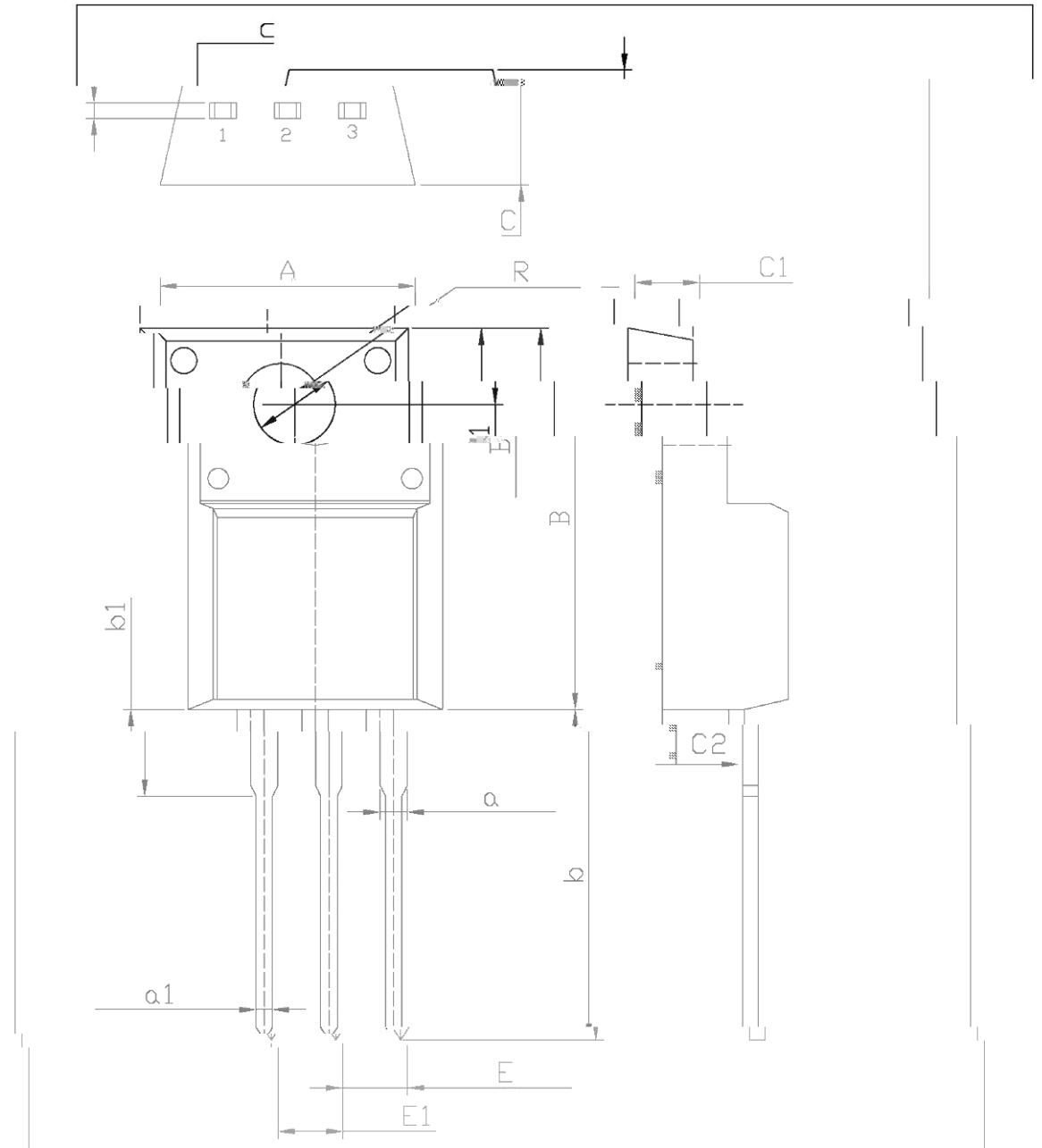



I_D
D.U.T.
V_{DD}
L
I_D
di/dt = 100A/μA
Double Pulse
t_{rr}

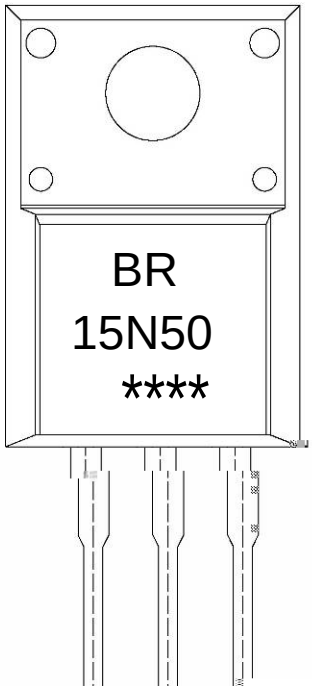

BV_{DSS}
Series Switch

D.U.T.
Commutating
V_{DD}
V_{DD}

单位：mm



Symbol	Dimensions In Millimeters		Symbol	Dimensions In Millimeters	
	Min.	Max.		Min.	Max.
C	4.5	4.9	b1	2.90	3.90
c	0.4	0.6	a	1.08	1.48
A	9.96	10.36	a1	0.70	0.90
b	12.87	13.07	E	2.34	2.74
B1	3.30	3.50	E1	2.34	2.74
R	3.08	3.28	C1	2.34	2.74
b	12.48	13.48	C2	2.56	2.96



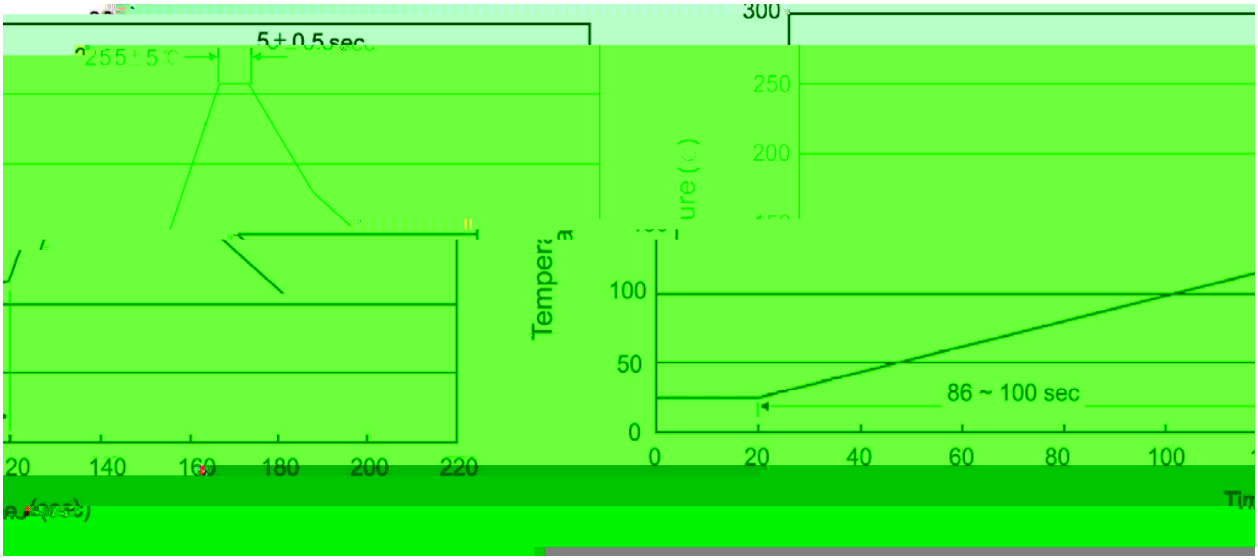
BR

15N50

****

Note:

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



					Note:
1	25	150	60	90sec;	1.Preheating:25~150 , Time:60~90sec.
2	255±5			5±0.5sec;	2.Peak Temp.:255±5 , Duration:5±0.5sec.
3		2	10	/sec.	3. Cooling Speed: 2~10 /sec.

270±5	10±1 sec.	Temp.:270±5	Time:10±1 sec

/ TUBE