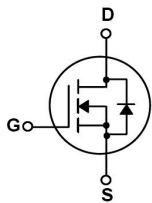


Rev.A Sep.-2017

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.

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}	$V_{GS}=0V \quad V_{DS}=25V$ $f=1.0MHz$		2400		pF
Output Capacitance	C_{oss}			235		
Reverse Transfer Capacitance	C_{rss}			25.5		
Resistive Switching Characteristics						
Turn-on Delay Time	$t_{d(ON)}$	$I_D=15A \quad V_{DD}=250V$ $V_{GS}=10V \quad R_G=6.1$		15		ns
Rise Time	t_r			30		
Turn-Off Delay Time	$t_{d(OFF)}$			50		
Fall Time	t_f					

Figure 6. Maximum Peak Current Capability

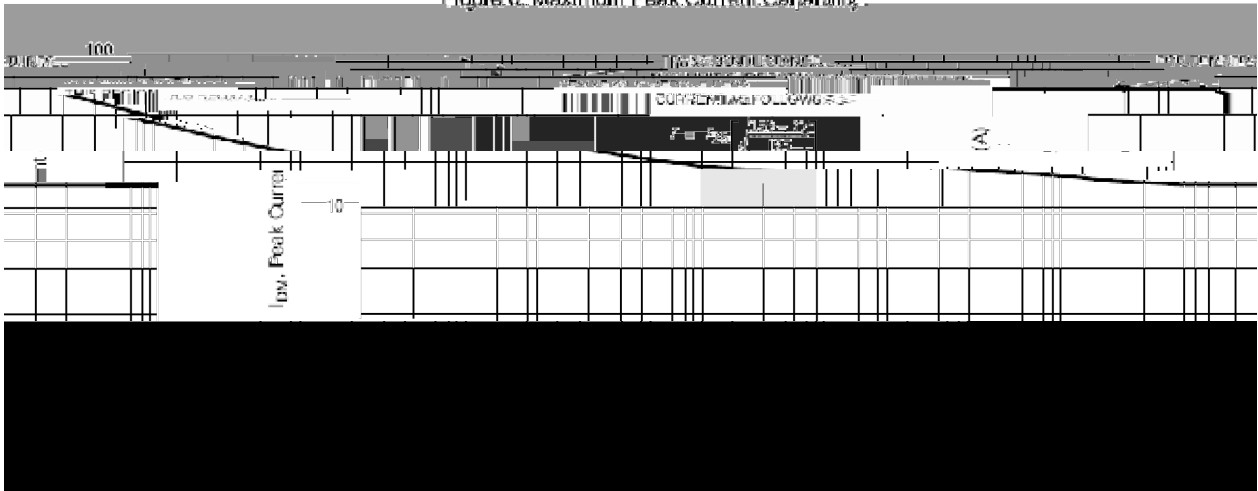


Figure 7. Typical Transfer Characteristics

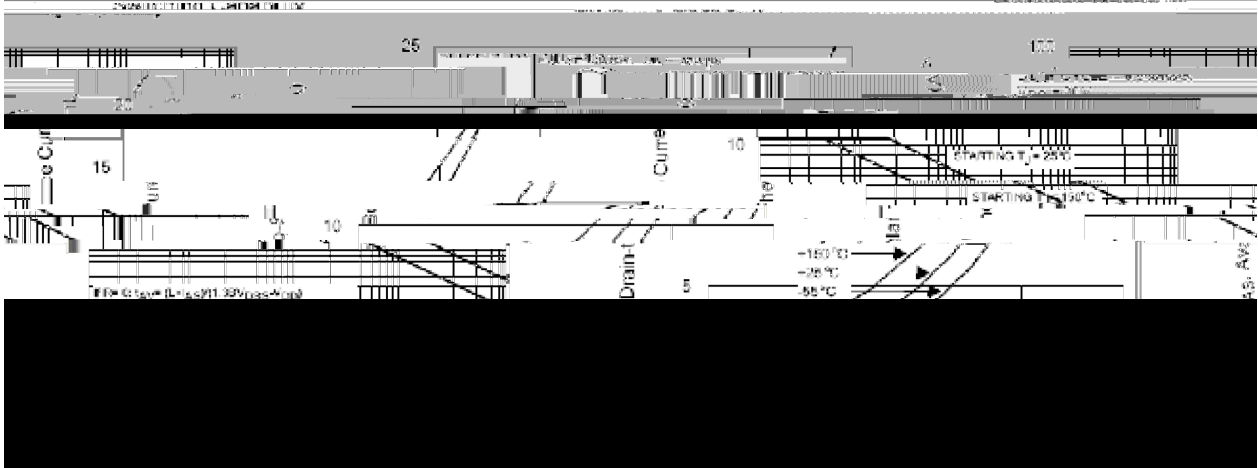
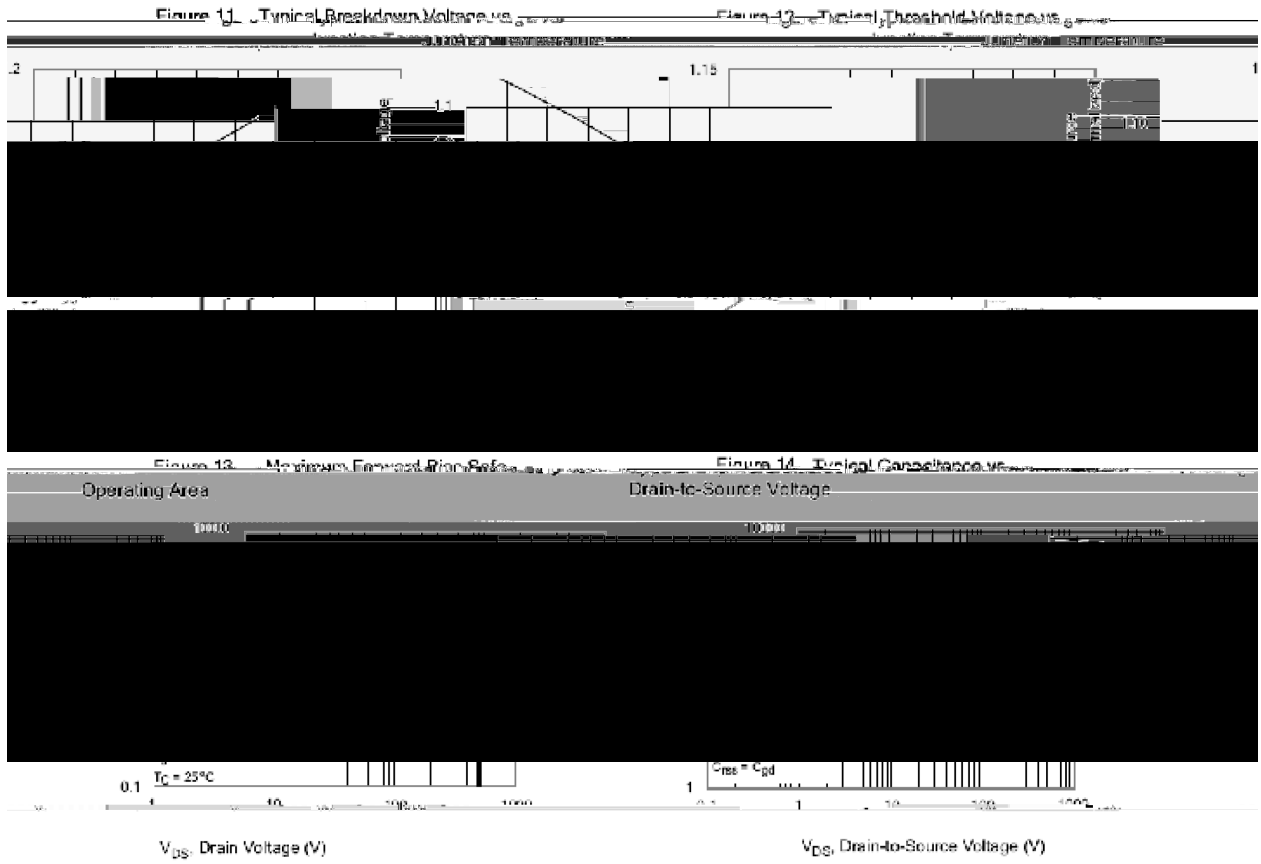
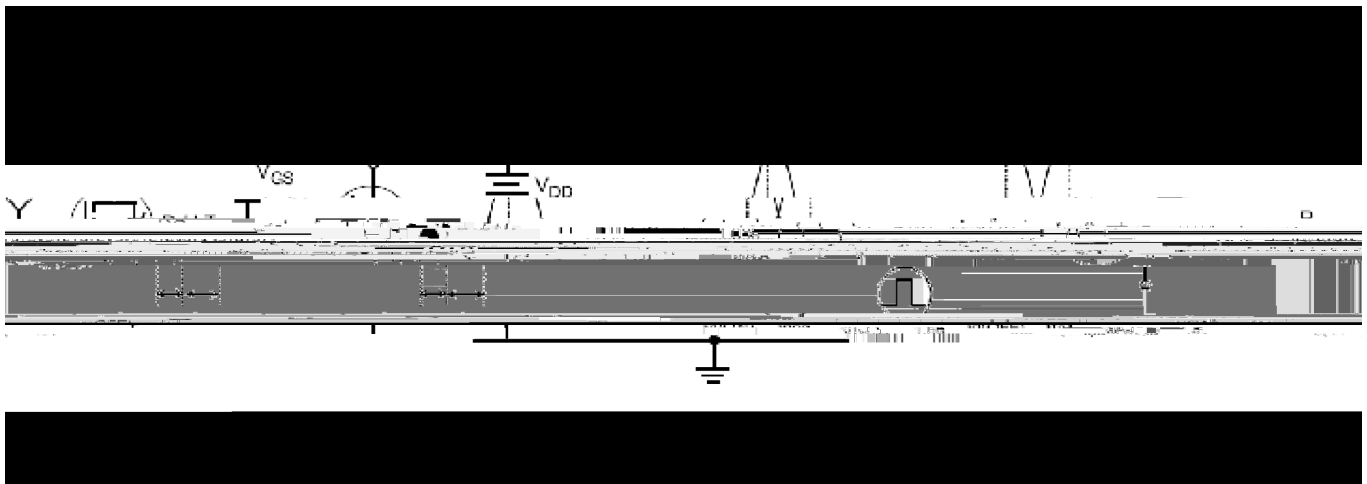
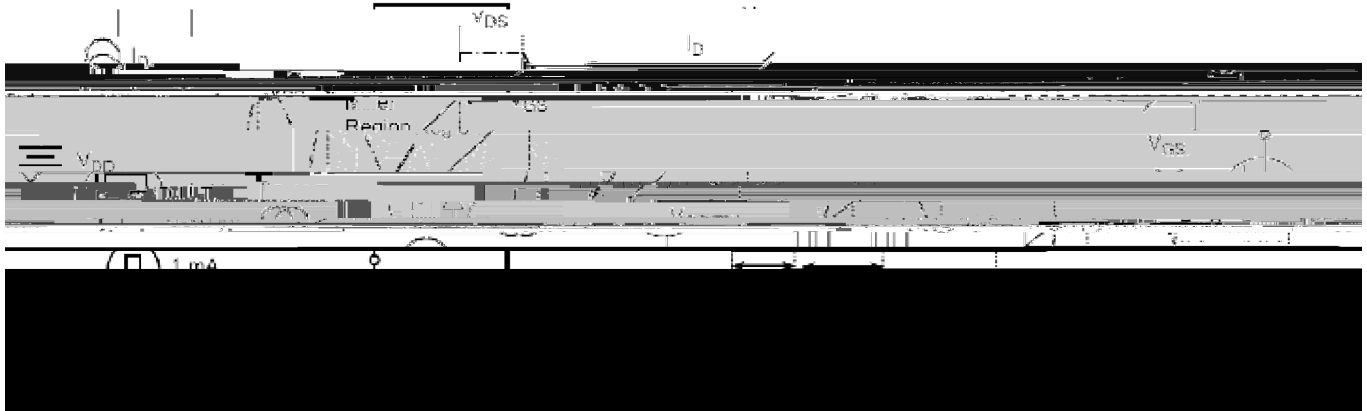


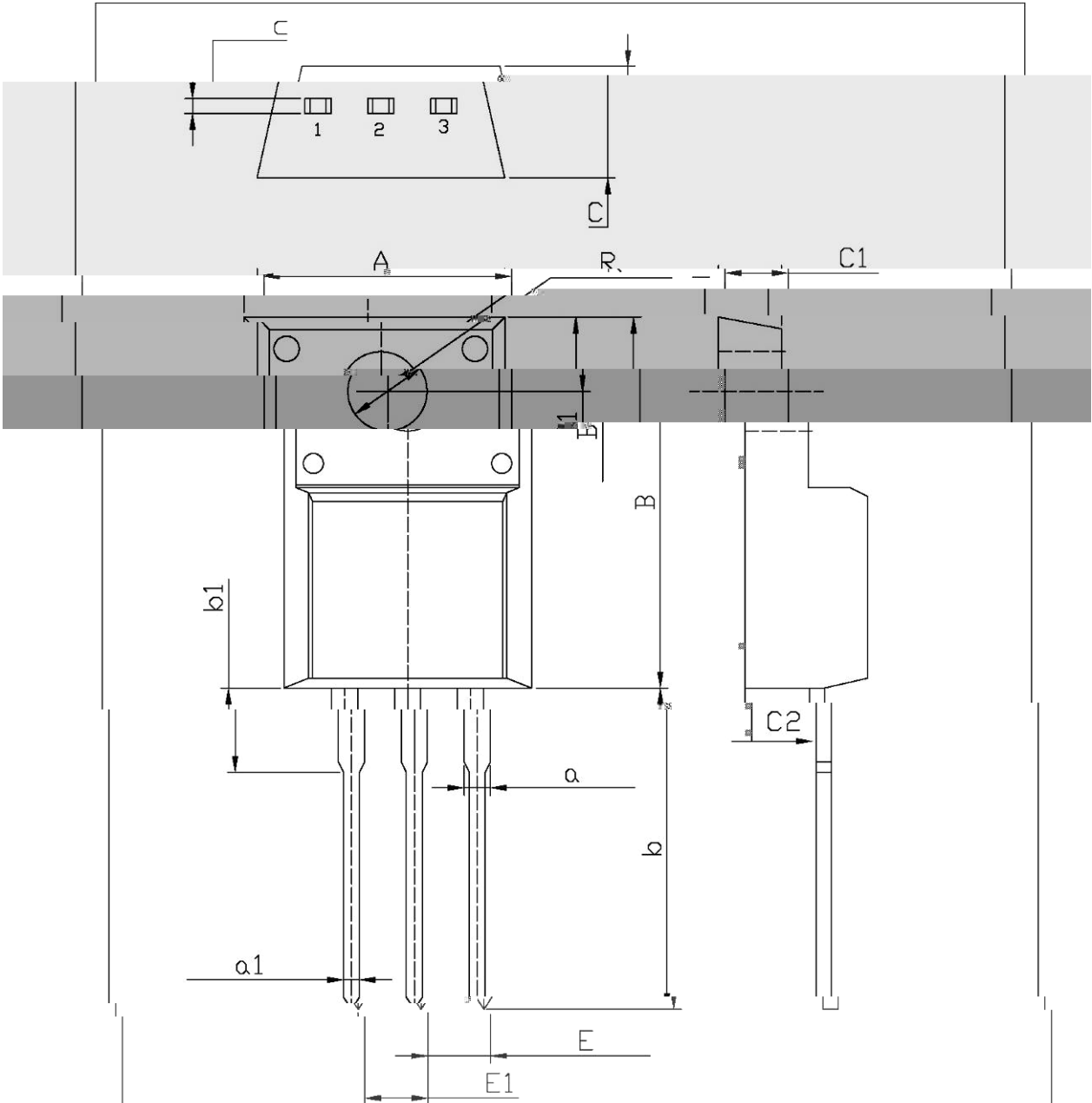
Figure 8. Unclamped I_{rrms}



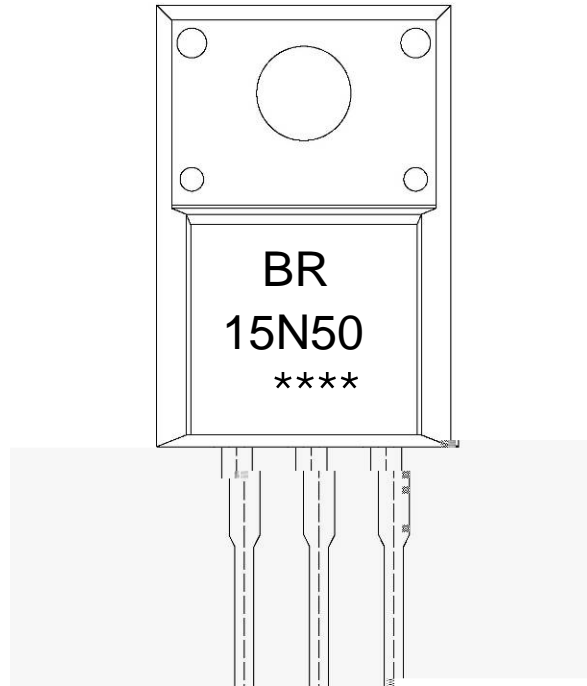




单位: mm



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	15.67	16.07	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

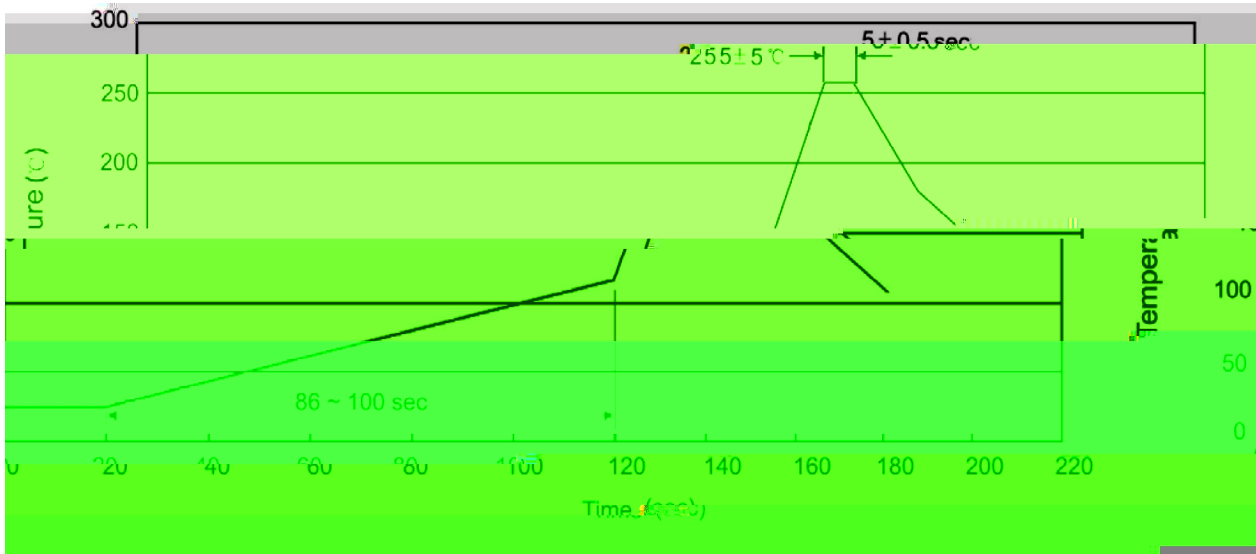
15N50

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