

# BRFL10N60

Rev.F Nov.-2022

## / Descriptions

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

## / Features

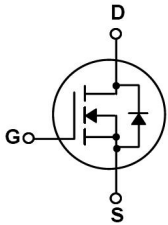
Low gate charge, low crss, fast switching.

## / Applications

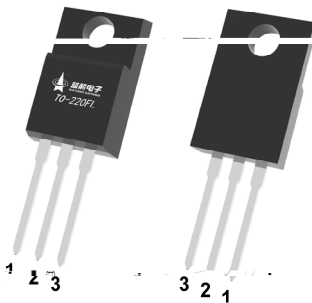
□

These devices are well suited for high efficiency switching DC/DC converters .

## / Equivalent Circuit



## / Pinning



PIN1 G

PIN 2 D

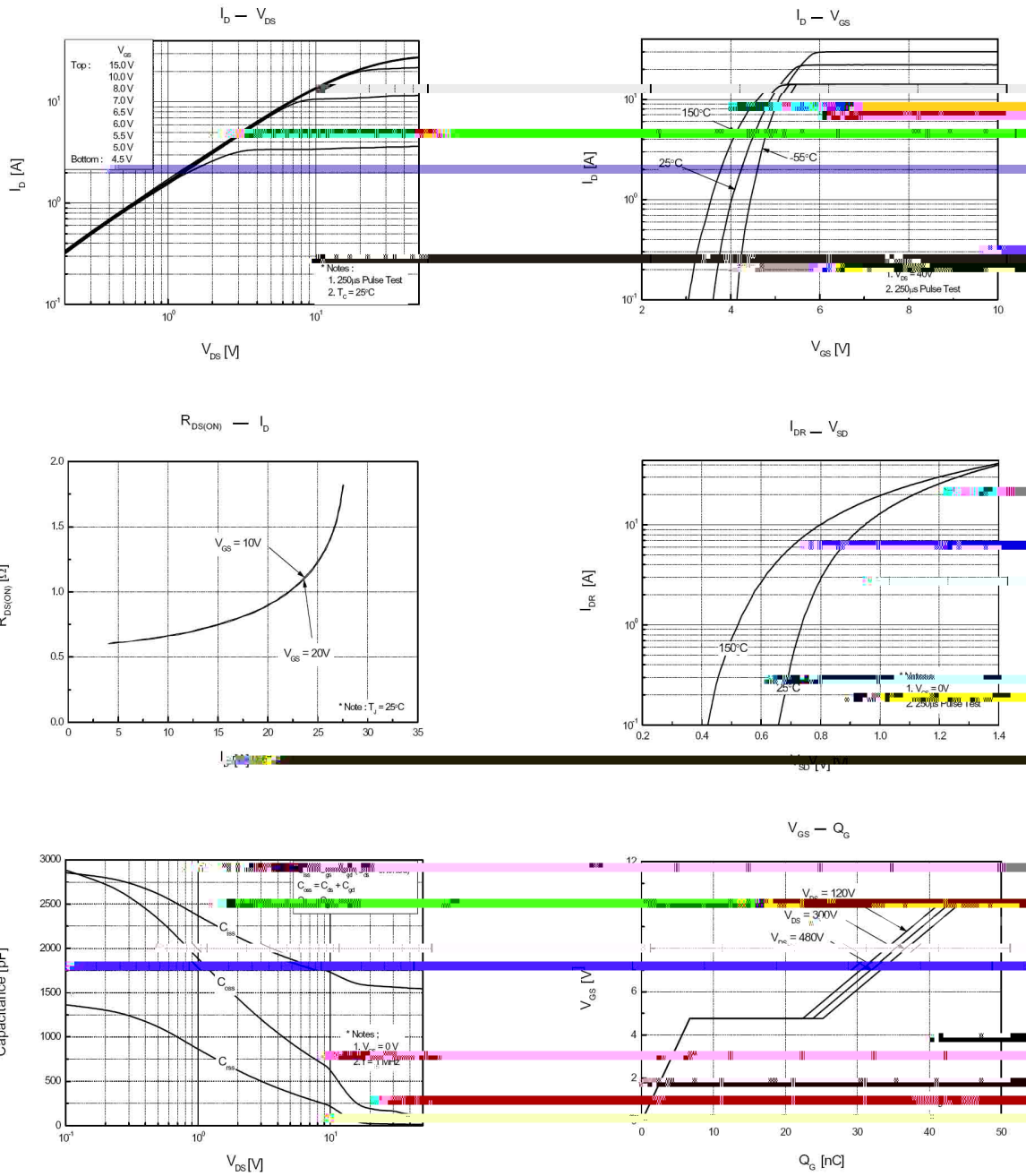
PIN 3 S

## / Marking

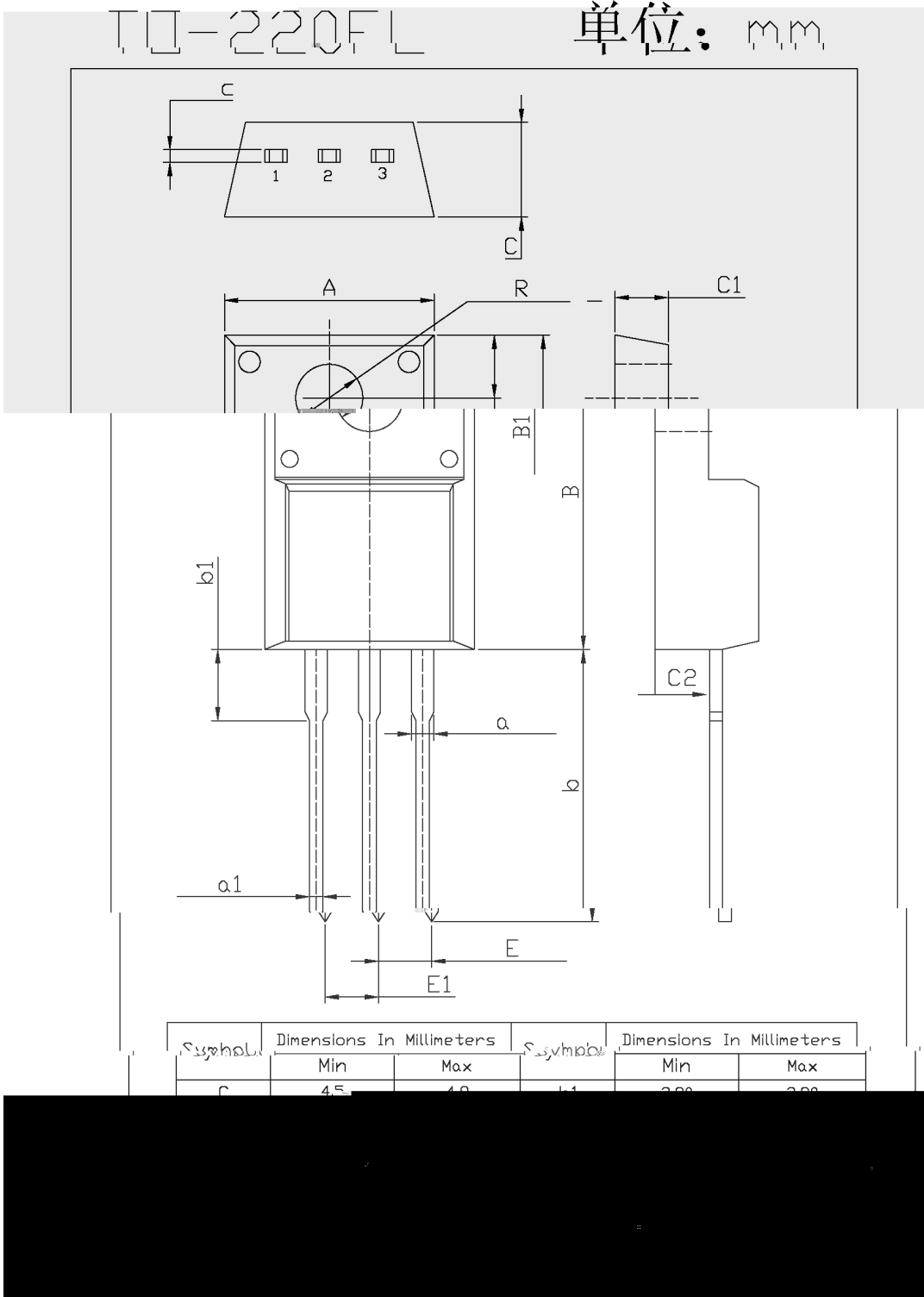
See Marking Instructions.

Parameter	Symbol	Rating	Unit
Drain-Source Voltage	$V_{DSS}$	600	V
Drain Current	$I_D(T_C=25^\circ\text{C})$	9.5	A
Drain Current	$I_D(T_C=100^\circ\text{C})$	5.7	A
Drain Current - Pulsed	$I_{DM}$	38	A
Gate-Source Voltage	$V_{GSS}$	$\pm 30$	V
Single Pulsed Avalanche Energy	$E_{AS}$	700	mJ
Repetitive Avalanche Energy	$E_{AR}$	15.6	mJ
Avalanche Current	$I_{AR}$	9.5	A
Thermal Resistance, Junction to Case	$R_{\theta JC}$	2.5	/W
Thermal Resistance, Junction to Ambient	$R_{\theta JA}$	62.5	/W
Power Dissipation	$P_D(T_C=25^\circ\text{C})$	50	W
Operating and Storage Temperature Range	$T_J, T_{STG}$	-55 to 150	

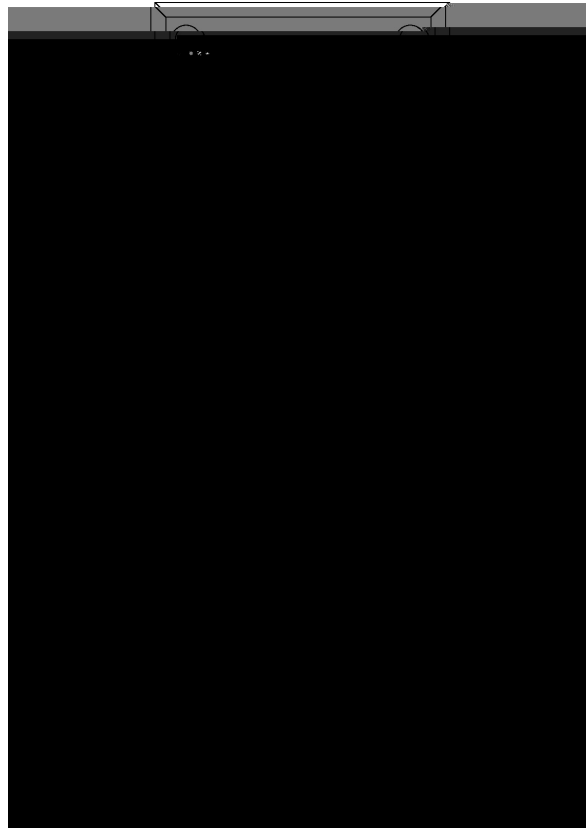
**/ Electrical Characteristic Curve**



**/ Package Dimensions**



**/ Marking Instructions**



BR  
10N60

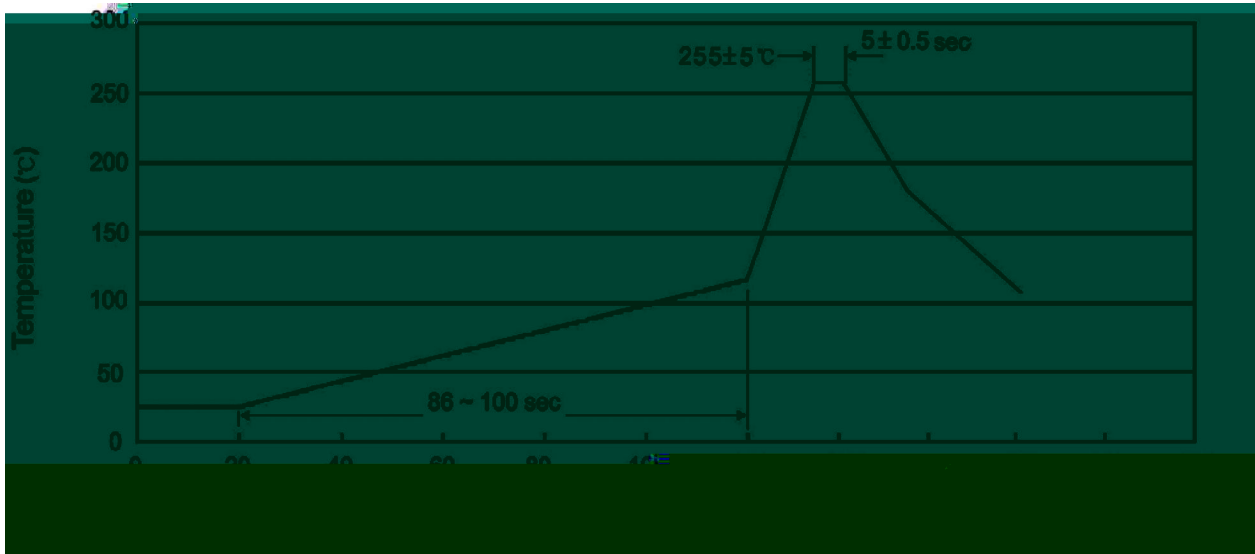
Note:

BR: Company Code

10N60: Product Type Code

\*\*\*: Lot No. Code, code change with Lot No

( ) / Temperature Profile for Dip Soldering(Pb-Free)



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.            |

/ Resistance to Soldering Heat Test Conditions

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

/ Packaging SPEC.

/ TUBE

Package Type	Units					Dimension (unit mm <sup>3</sup> )		

/ Notices