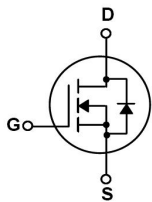


TO-220F N MOS N-CHANNEL MOSFET in a TO-220F Plastic Package.

Low $R_{DS(ON)}$, Low gate charge, Low C_{rss} , Fast switching, Improved dv/dt capability.

These devices are well suited for high efficiency switching DC/DC converters and switch mode power supplies.

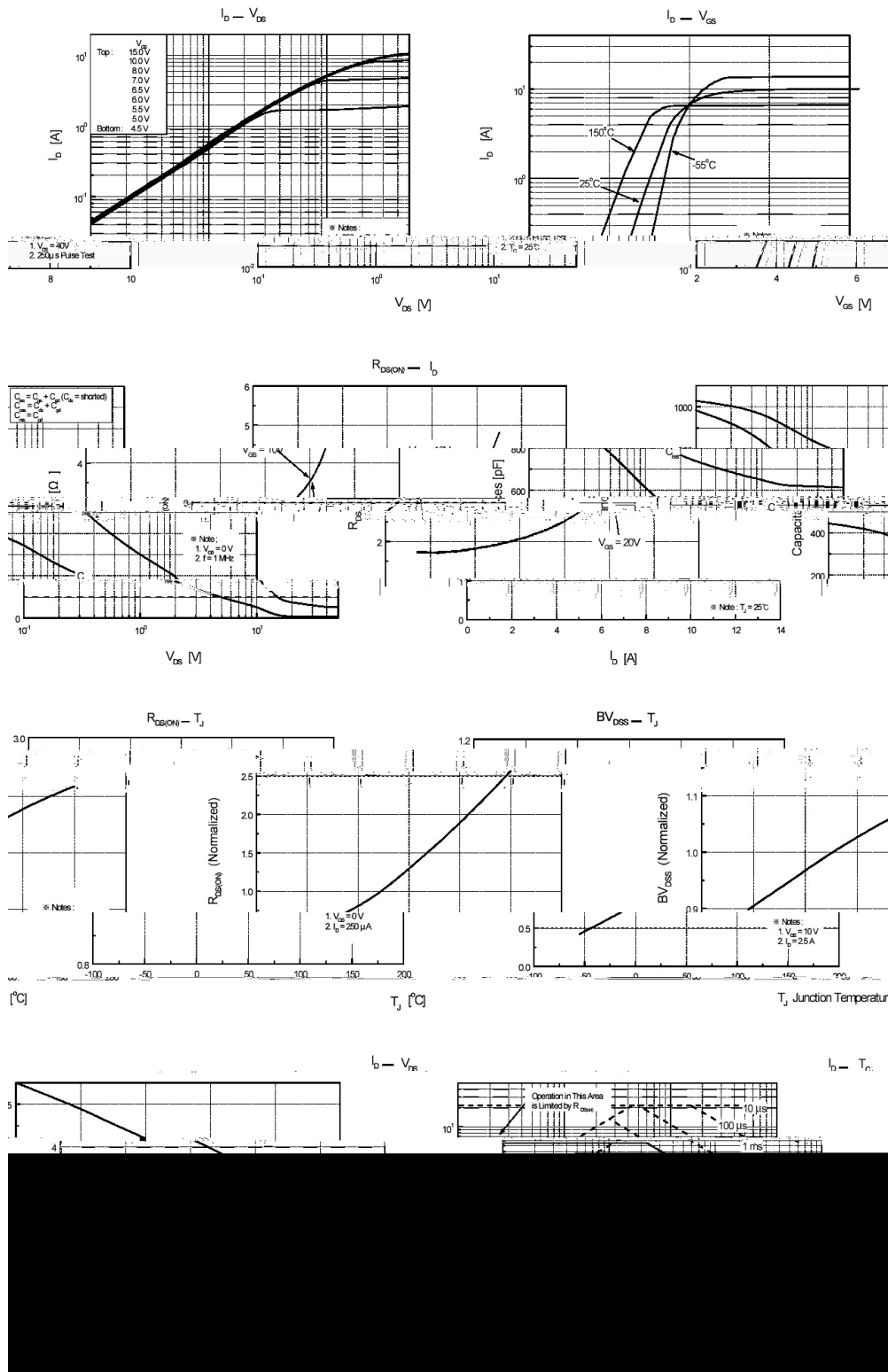


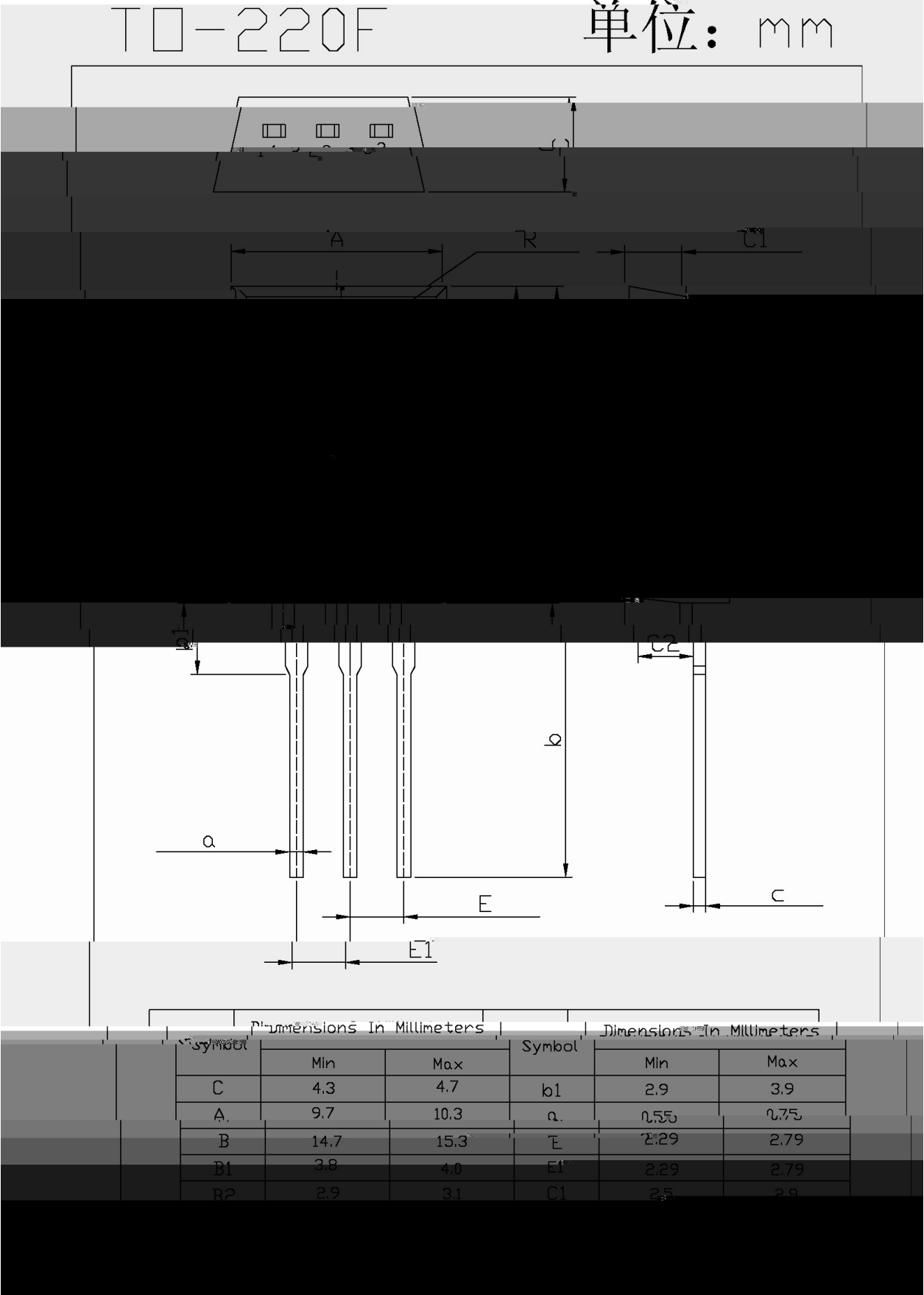
PIN1 G PIN 2 D PIN 3 S

See Marking Instructions.

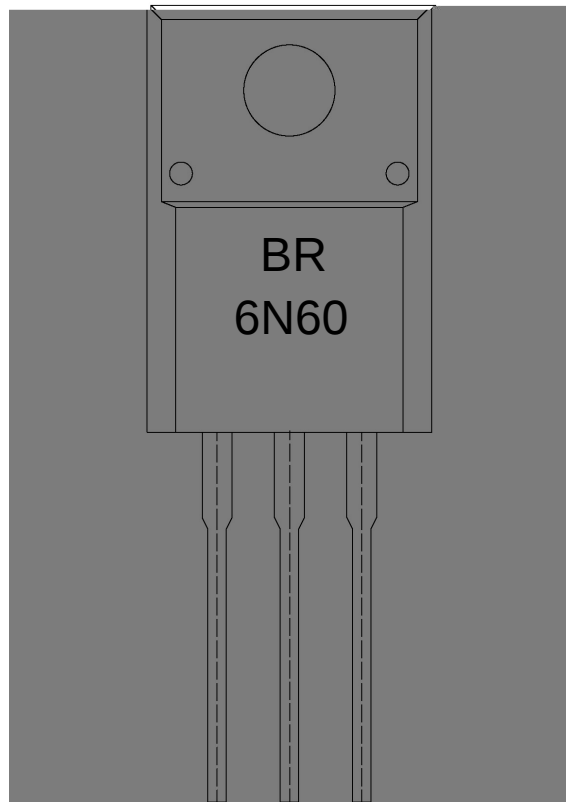
Parameter	Symbol	Rating	Unit
Drain-Source Voltage	V_{DS}	600	V
Drain Current	$I_D(T_C=25^\circ\text{C})$	5.5	A
Drain Current	$I_D(T_C=100^\circ\text{C})$	3.3	A
Drain Current - Pulsed	I_{DM}	22	A
Gate-Source Voltage	V_{GS}	± 30	V
Single Pulsed Avalanche Energy	E_{AS}	300	mJ
Repetitive Avalanche Energy	E_{AR}	12.5	mJ
Avalanche Current	I_{AR}	5.5	A
Power Dissipation	$P_D(T_C=25^\circ\text{C})$	80	W
Operating and Storage Temperature Range	T_J, T_{STG}	-55 to 150	

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Drain-Source Breakdown Voltage	BV_{DS}	$V_{GS}=0V$ $I_D=250\text{ }\mu\text{A}$	600			V
Zero Gate Voltage Drain Current	I_{DSS}	$V_{DS}=600V$ $V_{GS}=0V$			1	A
		$V_{DS}=480V$ $T_C=125^\circ\text{C}$			10	A
Gate-Body Leakage Current, Forward	I_{GSS}	$V_{GS}=\pm 30V$ $V_{DS}=0V$			± 0.1	A
Gate Threshold Voltage	$V_{GS(th)}$	$V_{DS}=V_{GS}$ $I_D=250\text{ }\mu\text{A}$	2.0		4.0	V
Static Drain-Source On-Resistance	$R_{DS(on)}$	$V_{GS}=10V$ $I_D=2.75A$		1.7	2.0	Ω
Forward Transconductance	g_{FS}	$V_{DS}=40V$ $I_D=2.75A$		4.8		S
Drain-Source Diode Forward Voltage	V_{SD}	$V_{GS}=0V$ $I_S=5.5A$			1.4	V
Input Capacitance	C_{iss}	$V_{DS}=25V$ $V_{GS}=0V$ $f=1.0MHz$		620	810	pF
Output Capacitance	C_{oss}			65	85	pF
Reverse Transfer Capacitance	C_{rss}			7	10	pF
Turn-On Delay Time	$t_{d(on)}$	$V_{DD}=300V$ $I_D=5.5A$ $R_G=25\Omega$		15	40	ns
Turn-On Rise Time	t_r			45	100	ns
Turn-Off Delay Time	$t_{d(off)}$			45	100	ns
Turn-Off Fall Time	t_f			45	100	ns



<http://www.fsbrec.com>

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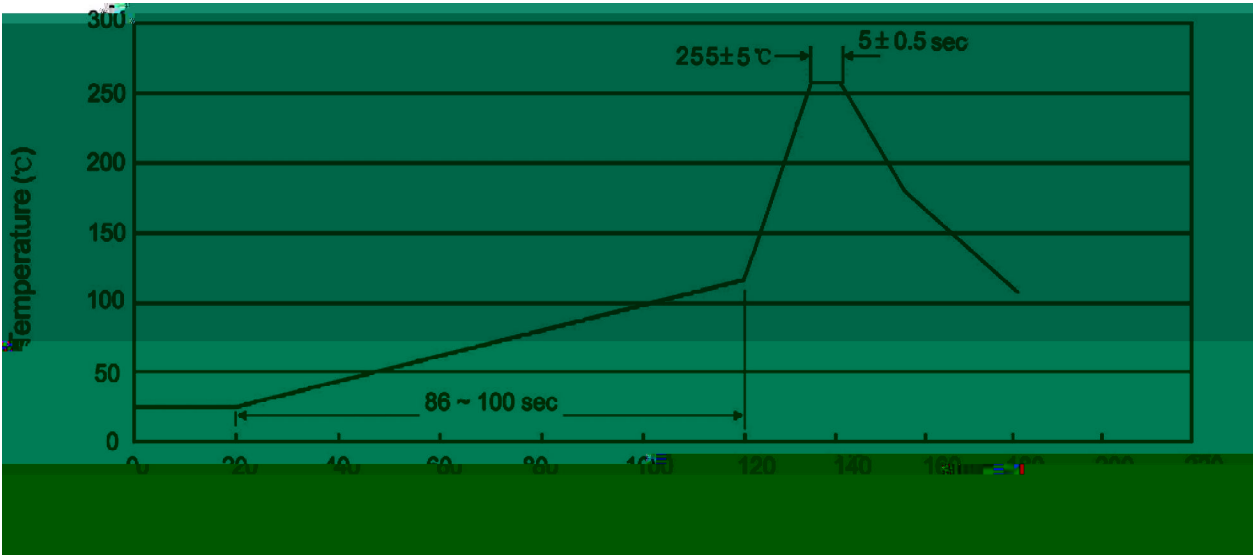
BR
6N60

Note:

BR: Company Code

6N60: 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

/ BULK

Package Type	Units 包装数量		Dimension 包装尺寸 (unit: mm ³)
封装形式	只 袋	袋 盒	只 盒