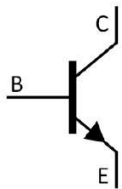


Silicon NPN transistor in a TO-220F Plastic Package.

Low $V_{CE(sat)}$, excellent DC current gain characteristics, $P_C=30W$, wide SOA.

General Purpose Power Amplifier.

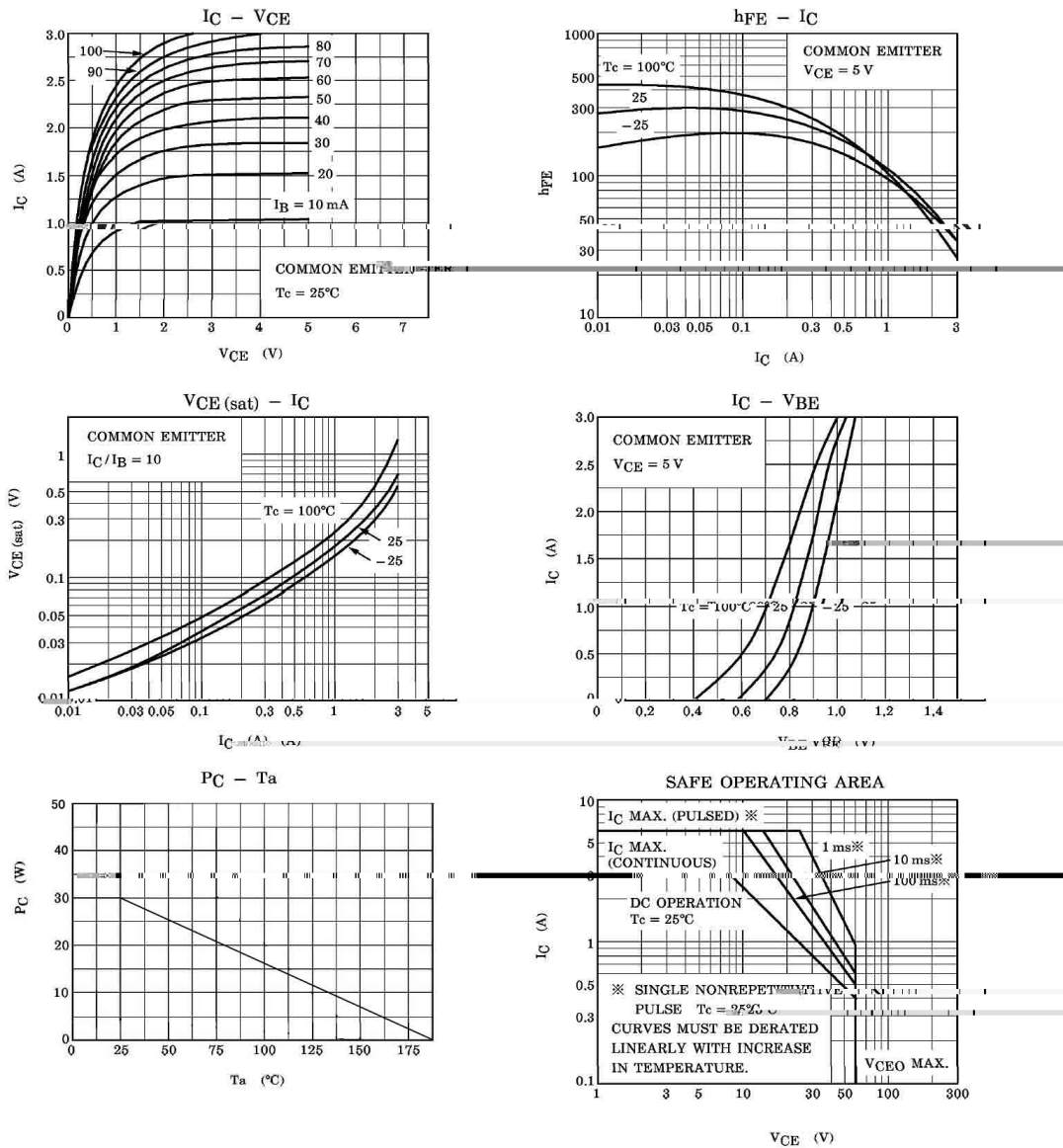


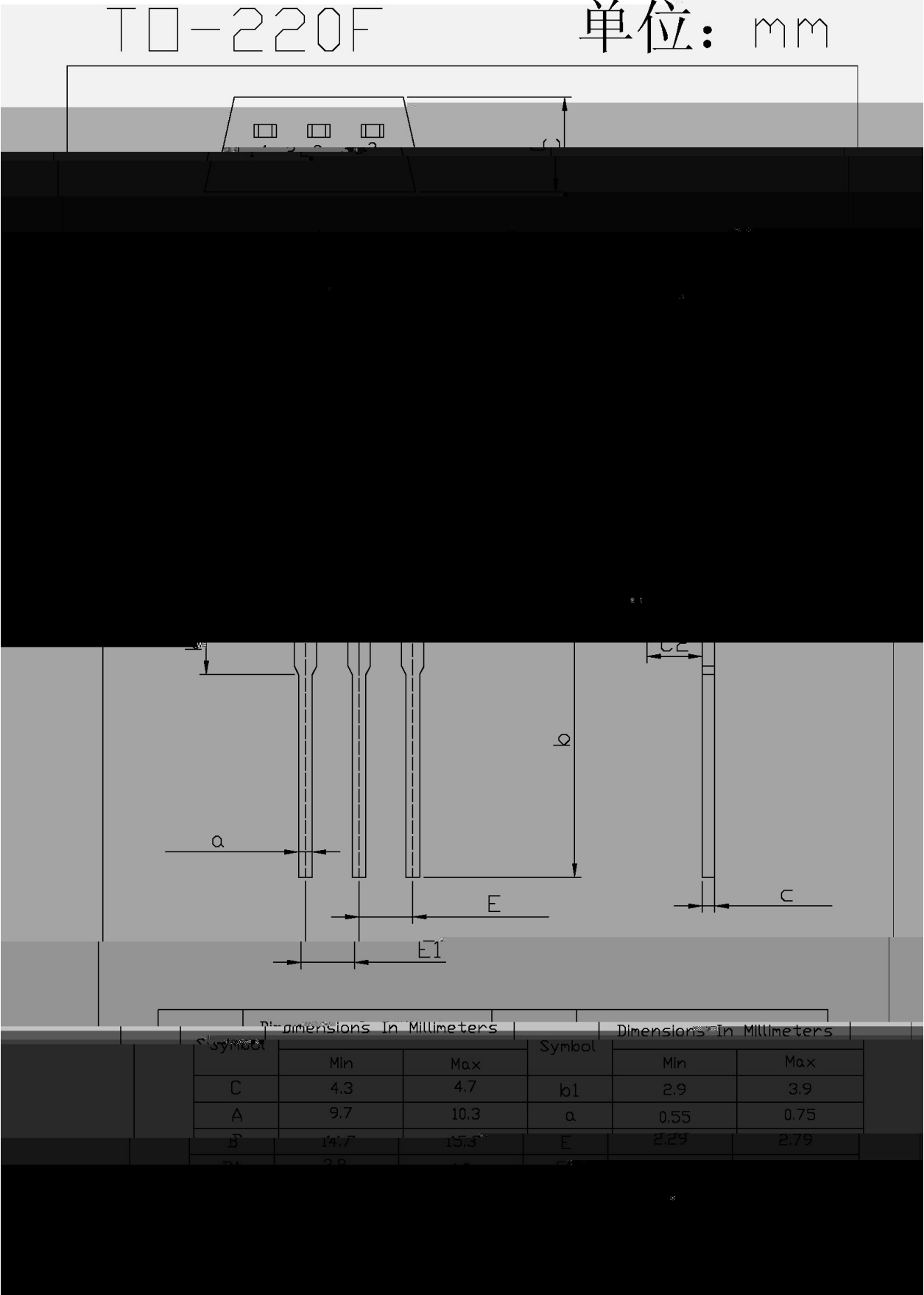
PIN1 Base PIN 2 Collector PIN 3 Emitter

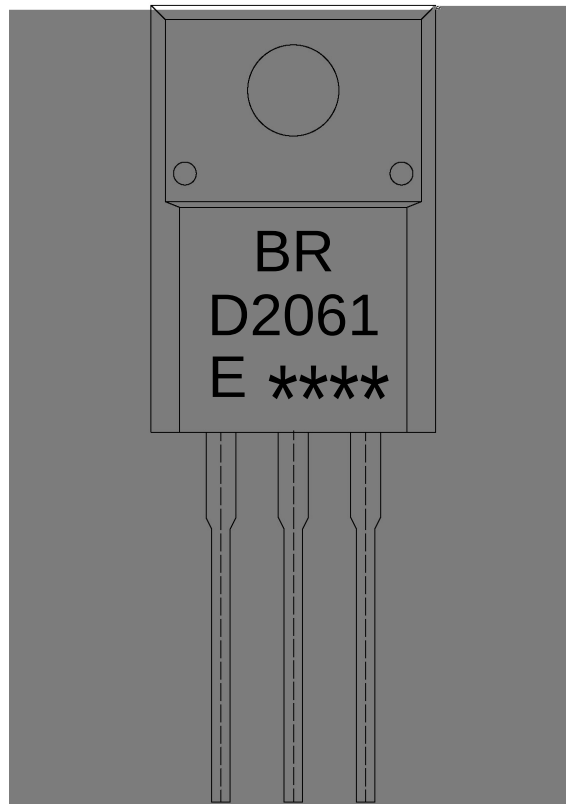
h_{FE} Classifications Symbol	E	F
h_{FE} Range	100 200	160 320

Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V_{CBO}	80	V
Collector to Emitter Voltage	V_{CEO}	60	V
Emitter to Base Voltage	V_{EBO}	5.0	V
Collector Current - Continuous	I_C	3.0	A
Peak Collector Current	I_{CM}	6.0	A
Collector Power Dissipation	P_C	2.0	W
Collector Power Dissipation	$P_C(T_c=25^{\circ}C)$	30	W
Junction Temperature	T_j	150	$^{\circ}C$
Storage Temperature Range	T_{stg}	-55 150	$^{\circ}C$

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector to Base Breakdown Voltage	V_{CBO}	$I_C=50\mu A$	80			V
Collector to Emitter Breakdown Voltage	V_{CEO}	$I_C=1.0mA$	60			V
Emitter to Base Breakdown Voltage	V_{EBO}	$I_E=50\mu A$	5.0			V
Collector Cut-Off Current	I_{CBO}	$V_{CB}=60V \quad I_E=0$			10	μA
Emitter Cut-Off Current	I_{EBO}	$V_{EB}=4.0V \quad I_C=0$			10	μA
DC Current Gain	h_{FE}	$V_{CE}=5.0V \quad I_C=500mA$	100		320	
Collector to Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=2.0A \quad I_B=0.2A$			1.0	V
Base to Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C=2.0A \quad I_B=0.2A$			1.5	V
Transition Frequency	f_T	$V_{CE}=5.0V \quad f=5.0MHz \quad I_E=-0.5A$		8.0		MHz
Collector output capacitance	C_{ob}	$V_{CB}=10V \quad f=1.0MHz \quad I_E=0$		70		pF







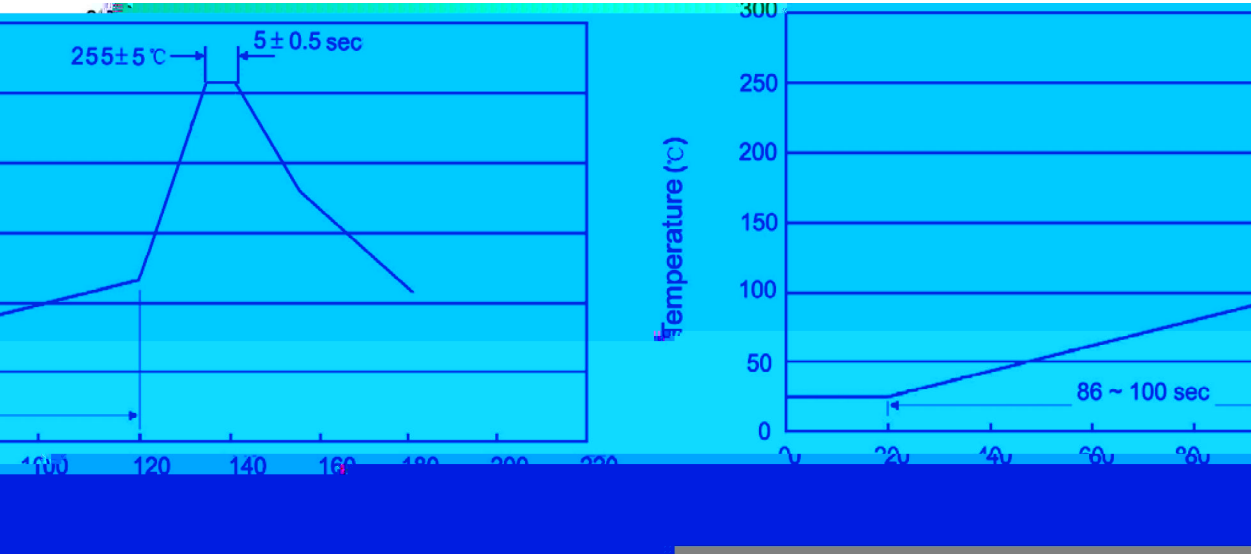
Note:

BR: Company Code.

D2061: Product Type.

E: h_{FE} Classifications Symbol

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



- 1

25 150

60 90sec;
- 2

255 5

5 0.5sec;
- 3

2 10

/sec.

Note:

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					Dimension (unit mm ³)		
	Units/Bag /	Bags/Inner Box /	Units/Inner Box /	Inner Boxes/Outer Box /	Units/Outer Box /	Bag	Inner Box	Outer Box
TO-220/F	200	10	2,000	5	10,000	135×190	237×172×102	560×245×195