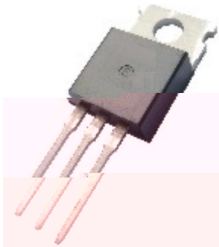
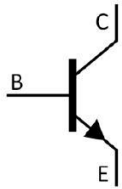


Silicon NPN transistor in a TO-220 Plastic Package.

High speed switching, high SOA.

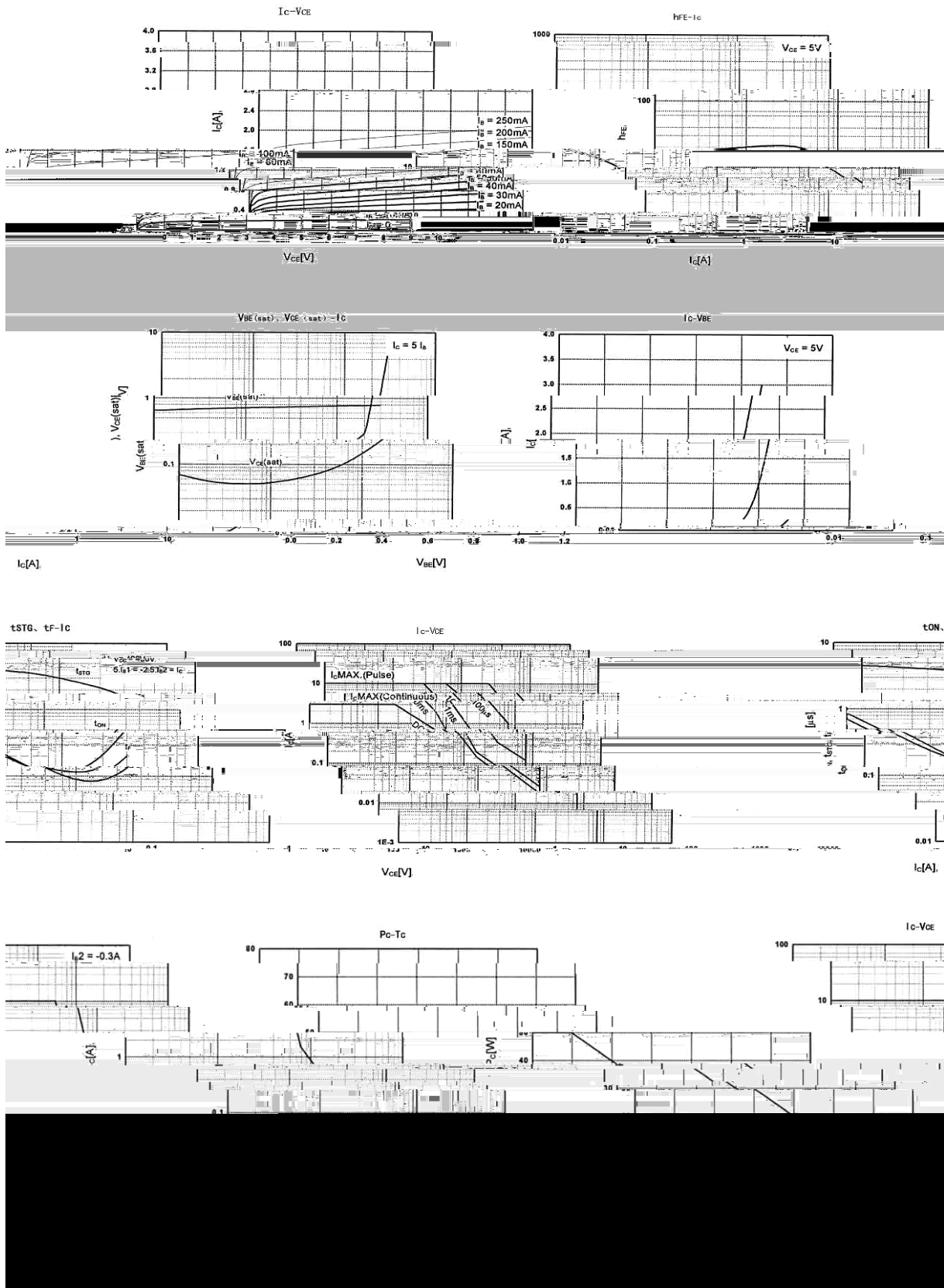
High voltage switching and amplifier applications.

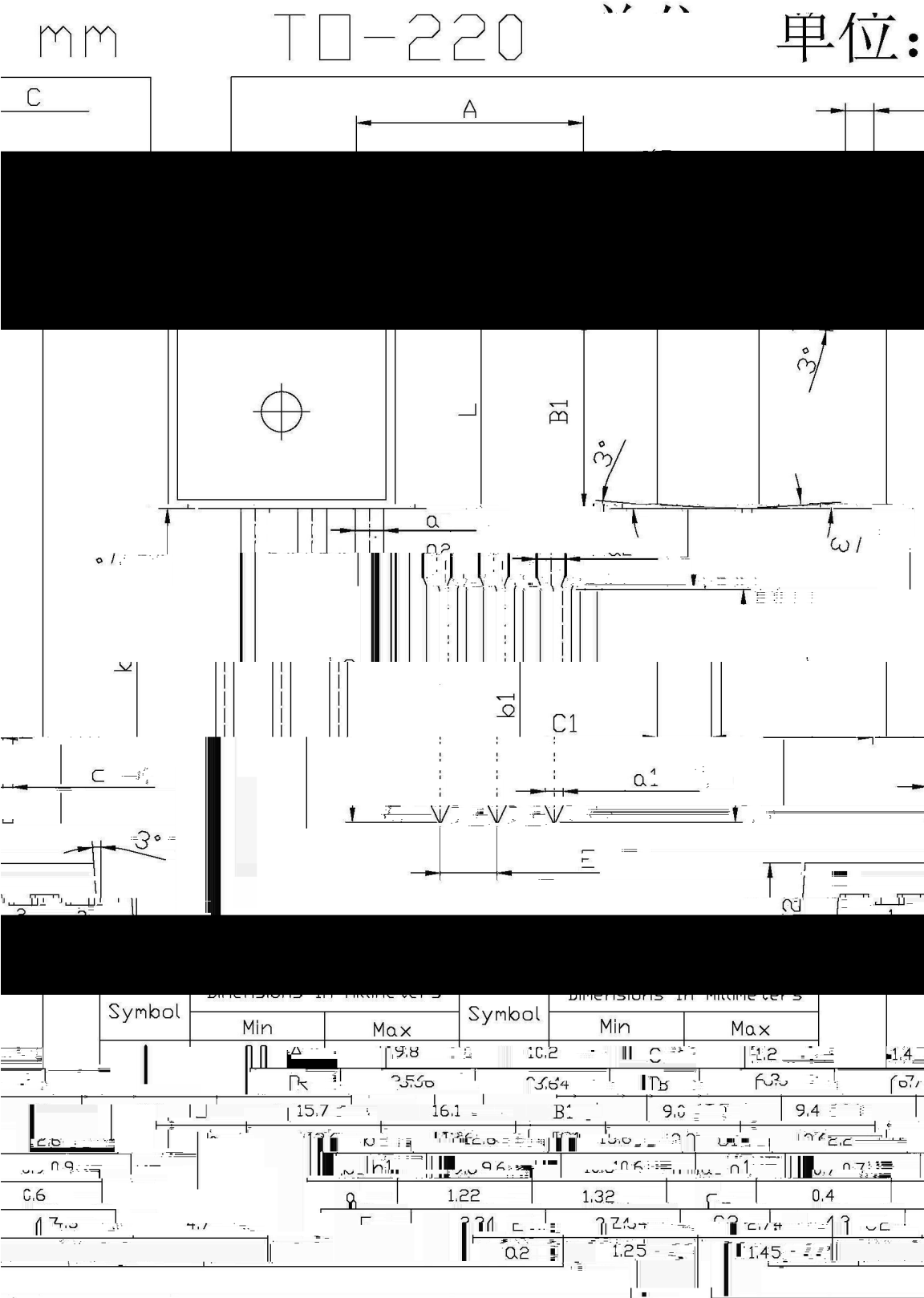


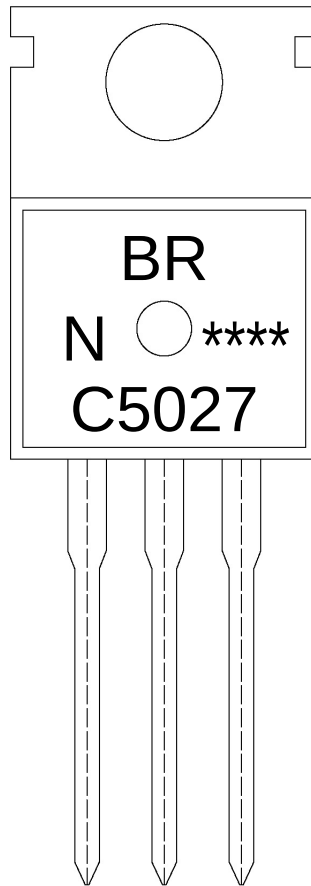
PIN1 Base PIN 2 Collector PIN 3 Emitter

Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V_{CBO}	1100	V
Collector to Emitter Voltage	V_{CEO}	800	V
Emitter to Base Voltage	V_{EBO}	7.0	V
Collector Current - Continuous	I_C	3.0	A
Collector Current – Continuous(Pulse)	I_{CP}	10	A
Base Current - Continuous	I_B	1.5	A
Collector Power Dissipation	$P_C(T_C=25^\circ\text{C})$	50	W
Junction Temperature	T_j	150	
Storage Temperature Range	T_{stg}	-55 ~ 150	

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector to Base Breakdown Voltage	V_{CBO}	$I_C=1.0\text{mA}$ $I_E=0$	1100			V
Collector to Emitter Breakdown Voltage	V_{CEO}	$I_C=5.0\text{mA}$ $I_B=0$	800			V
Emitter to Base Breakdown Voltage	V_{EBO}	$I_E=1.0\text{mA}$ $I_C=0$	7.0			V
Collector Cut-Off Current	I_{CBO}	$V_{CB}=800\text{V}$ $I_E=0$			10	μA
Emitter Cut-Off Current	I_{EBO}	$V_{EB}=5.0\text{V}$ $I_C=0$			10	μA
DC Current Gain	$h_{FE(1)}$	$V_{CE}=5.0\text{V}$ $I_C=0.2\text{A}$	10		40	
	$h_{FE(2)}$	$V_{CE}=5.0\text{V}$ $I_C=1.0\text{A}$	8.0			
Collector to Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=1.5\text{A}$ $I_B=0.3\text{A}$			2.0	V
Base to Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C=1.5\text{A}$ $I_B=0.3\text{A}$			1.5	V
Transition Frequency	f_T	$V_{CE}=10\text{V}$ $I_C=0.2\text{A}$		15		MHz
Collector output capacitance	C_{ob}	$V_{CB}=10\text{V}$ $I_E=0$ $f=1.0\text{MHz}$		60		pF
Turn-On Time	T_{on}	$V_{CC}=400\text{V}$ $R_L=200\Omega$ $I_C=5\text{I}_{B1}=-2.5\text{I}_{B2}=2\text{A}$			0.5	μs
Storage Time	T_{stg}				3.0	
Fall Time	T_{off}				0.3	







Note:

BR: Company Code

C5027: Product Type.

N: h_{FE} Classifications Symbol

****: 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

/ BULK

Package Type 封装形式	Units 包装数量					Dimension 包装尺寸 (unit: mm ³)		
	Units/Bag 只/袋	Bags/Inner Box 袋/盒	Units/Inner Box 只/盒	Inner Boxes/Outer Box 盒/箱	Units/Outer Box 只/箱	Bag 袋	Inner Box 盒	Outer Box 箱
TO-220/F	200	10	2,000	5	10,000	135×190	237×172×102	560×245×195

/ TUBE

Package Type 封装形式	Units 包装数量					Dimension 包装尺寸 (unit: mm ³)		
	Units/Tube 只/套管	Tubes/Inner Box 套管/盒	Units/Inner Box 只/盒	Inner Boxes/Outer Box 盒/箱	Units/Outer Box 只/箱	Tube 套管	Inner Box 盒	Outer Box 箱
TO-220/F	50	20	1,000	5	5,000	532×31.4×5.5	555×164×50	575×290×180