

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

, KTA1658
 Good linearity of h_{FE} , complementary to KTA1658.

General purpose amplifier.

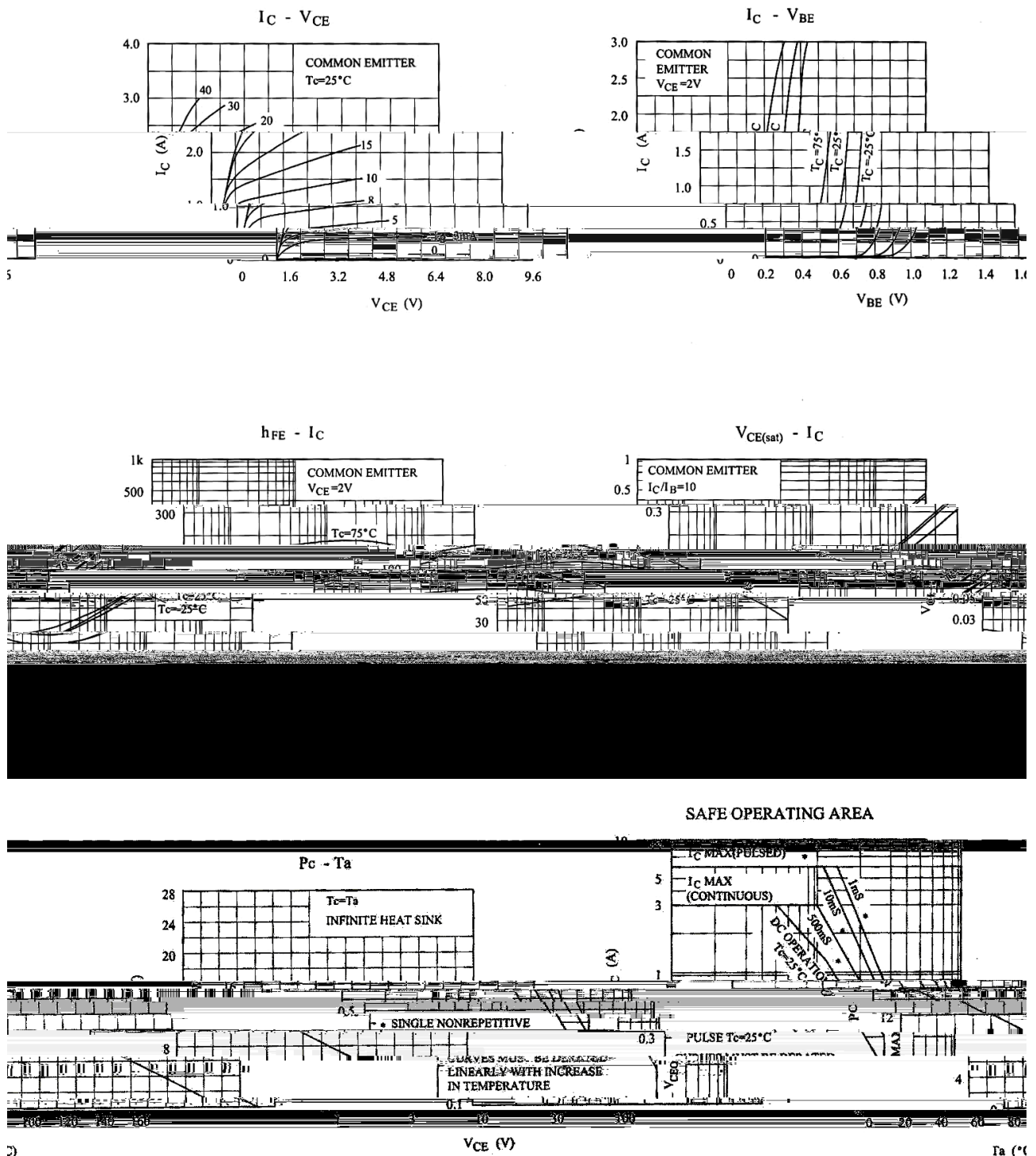


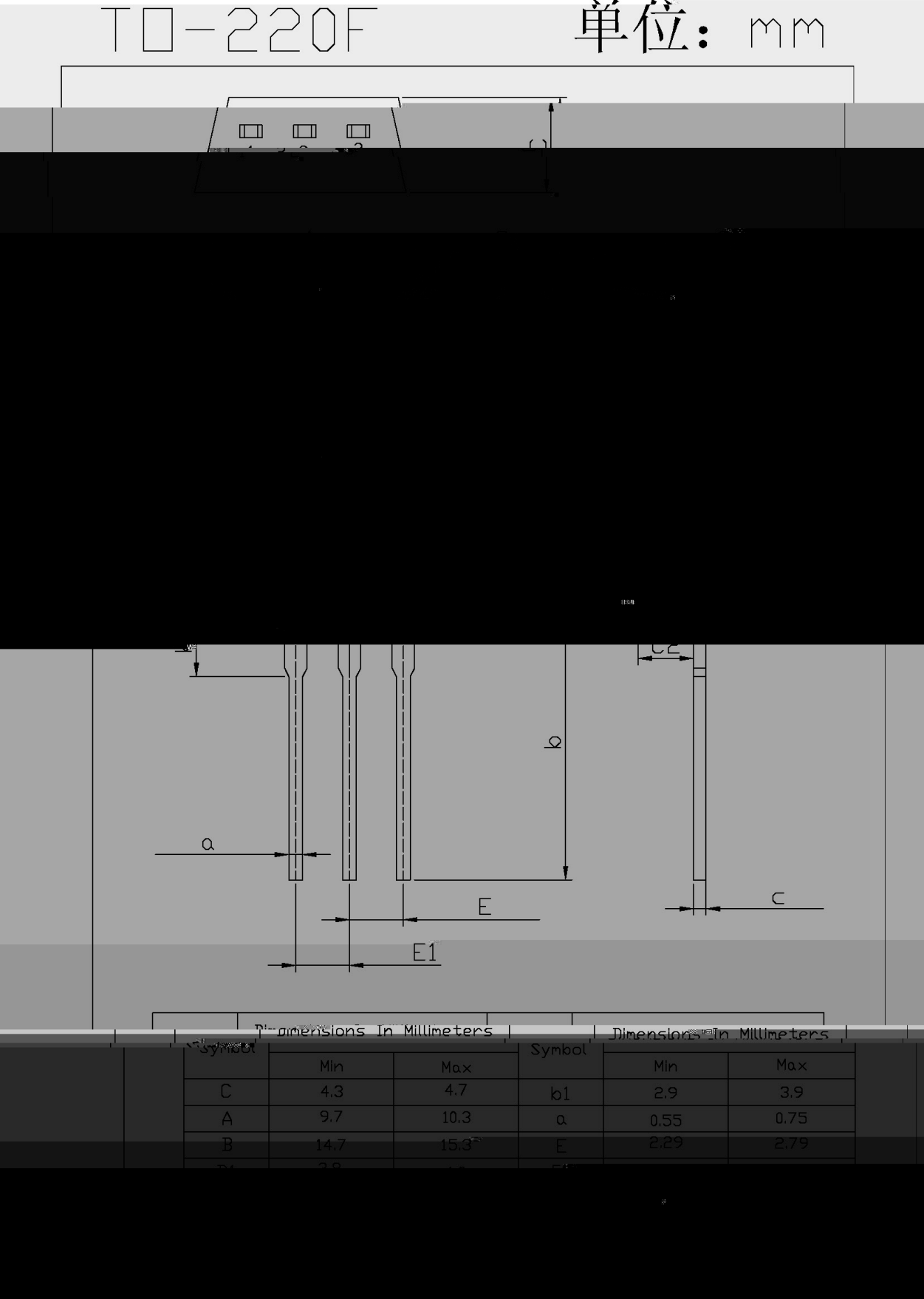
PIN1 Base PIN 2 Collector PIN 3 Emitter

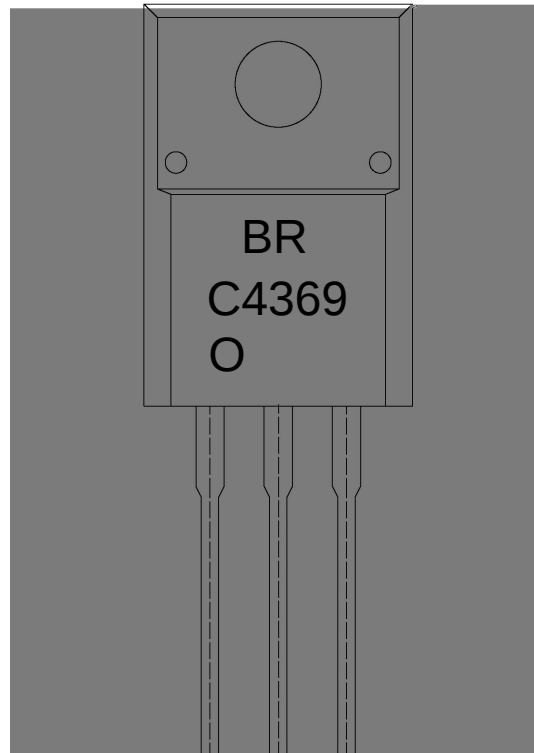
h_{FE} Classifications Symbol	O	Y
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Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V_{CBO}	30	V
Collector to Emitter Voltage	V_{CEO}	30	V
Emitter to Base Voltage	V_{EBO}	5.0	V
Collector Current - Continuous	I_C	3.0	A
Base Current	I_B	0.3	A
Collector Power Dissipation	P_C	1.5	W
Collector Power Dissipation	$P_C(T_c=25^{\circ}\text{C})$	15	W
Junction Temperature	T_j	150	$^{\circ}\text{C}$
Storage Temperature Range	T_{stg}	-55~150	$^{\circ}\text{C}$

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector to Emitter Breakdown Voltage	V_{CEO}	$I_C=10\text{mA}$ $I_B=0$	30			V
Collector Cut-Off Current	I_{CBO}	$V_{CB}=20\text{V}$ $I_E=0$			1.0	μA
Emitter Cut-Off Current	I_{EBO}	$V_{EB}=5.0\text{V}$ $I_C=0$			1.0	μA
DC Current Gain	$h_{FE(1)}$	$V_{CE}=2.0\text{V}$ $I_C=0.5\text{A}$	70		240	
	$h_{FE(2)}$	$V_{CE}=2.0\text{V}$ $I_C=2.5\text{A}$	25			
Collector to Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=2.0\text{A}$ $I_B=0.2\text{A}$		0.3	0.8	V
Base to Emitter Voltage	V_{BE}	$V_{CE}=2.0\text{V}$ $I_C=0.5\text{A}$		0.75	1.0	V
Transition Frequency	f_T	$V_{CE}=2.0\text{V}$ $I_C=0.5\text{A}$		100		MHz
Collector output capacitance	C_{ob}	$V_{CB}=10\text{V}$ $I_E=0$ $f=1.0\text{MHz}$		3.5		pF







BR

C4369

O: h_{FE}

Note:

BR: Company Code.

C4369: Product Type.

O: h_{FE} Classifications Symbol

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



Note:

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|---|-------|-----|-----------|--------|---|
| 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: mm3)		
	只 袋	袋 盒	只 盒	盒 箱	只 箱	袋	盒	箱

/ TUBE

Package Type 封装形式	Units 包装数量					Dimension 包装尺寸 (unit: mm3)		
	只 套管	套管 盒	只 盒	盒 箱	只 箱	套管	盒	箱