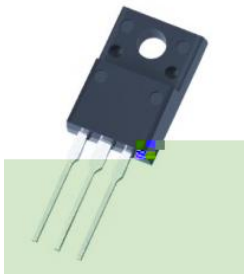
Silicon NPN transistor in a TO-220F Plastic Package.

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

General purpose amplifier.



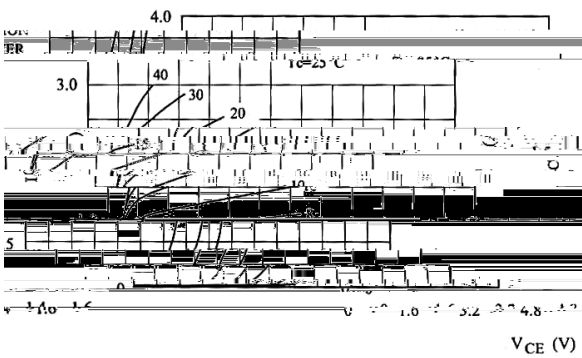
PIN1 Base PIN 2 Collector PIN 3 Emitter

| $h_{FE}$ Classifications Symbol | O | Y |
|---|---|---|

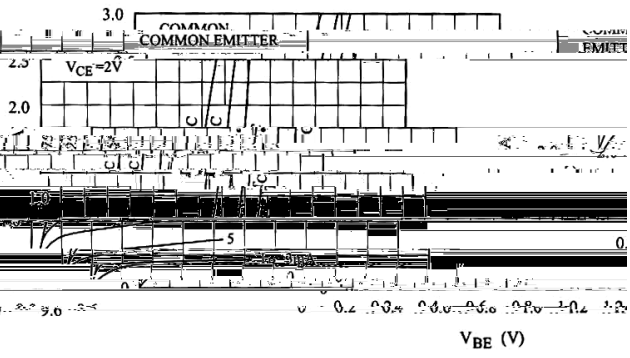
| Parameter | Symbol | Rating | Unit |
|---|---|---|---|
| Collector to Base Voltage | $V_{CBO}$ | 30 | V |
| Collector to Emitter Voltage | $V_{CEO}$ | 30 | V |
| Emitter to Base Voltage | $V_{EBO}$ | 5.0 | V |
| Collector Current - Continuous | $I_C$ | 3.0 | A |
| Base Current | $I_B$ | 0.3 | A |
| Collector Power Dissipation | $P_C$ | 1.5 | W |
| Collector Power Dissipation | $P_C$(Tc=25 ) | 15 | W |
| Junction Temperature | $T_j$ | 150 | |
| Storage Temperature Range | $T_{stg}$ | -55 150 | |

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

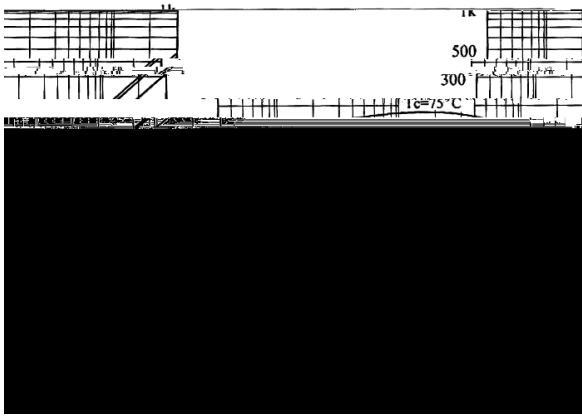
$I_C$ - $V_{CE}$



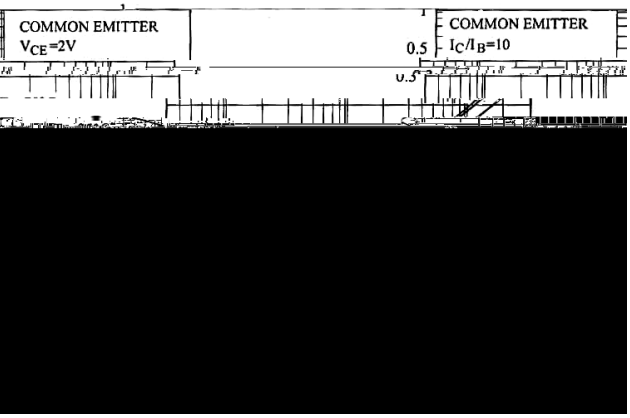

$I_C$ - $V_{BE}$

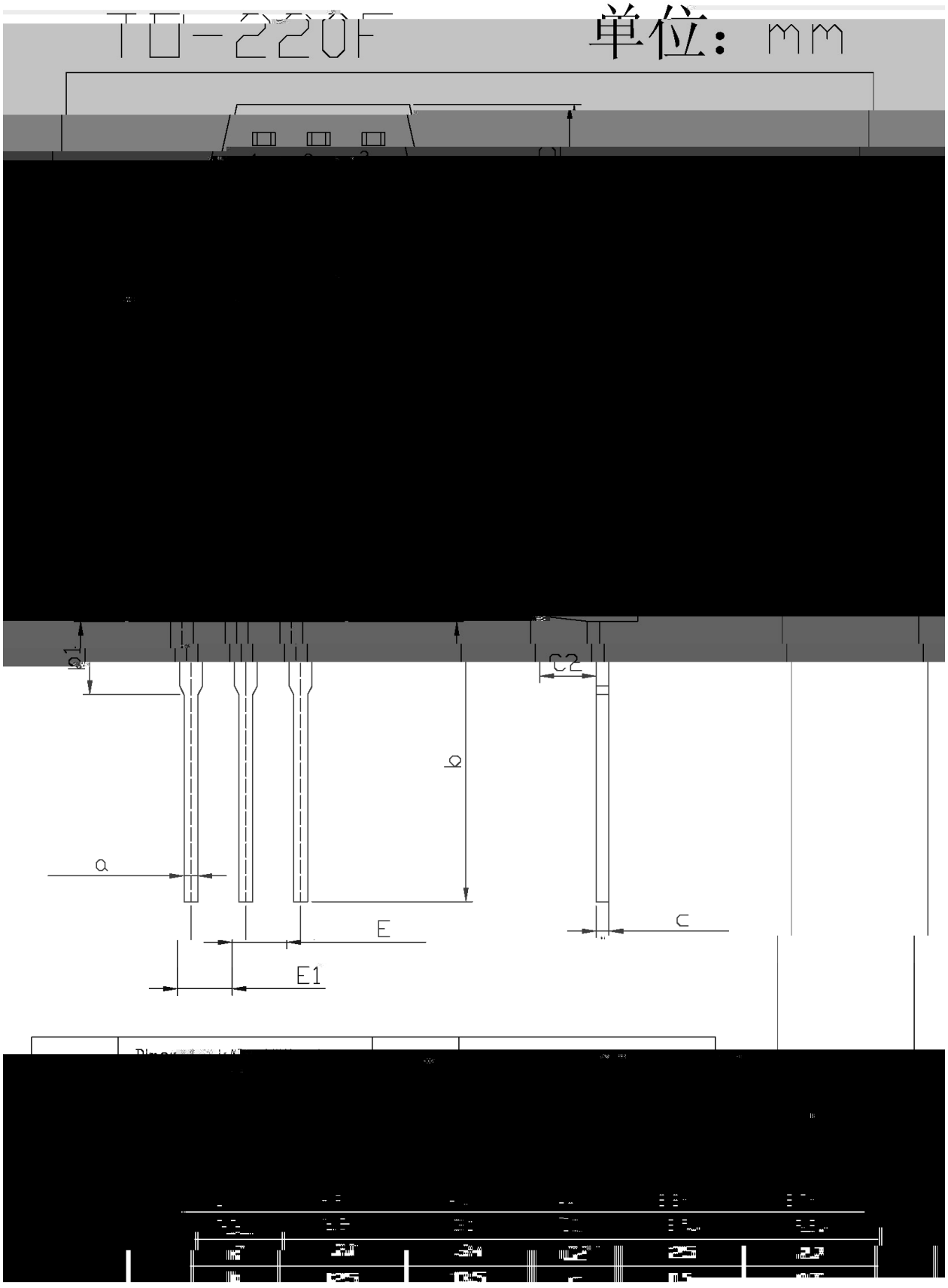


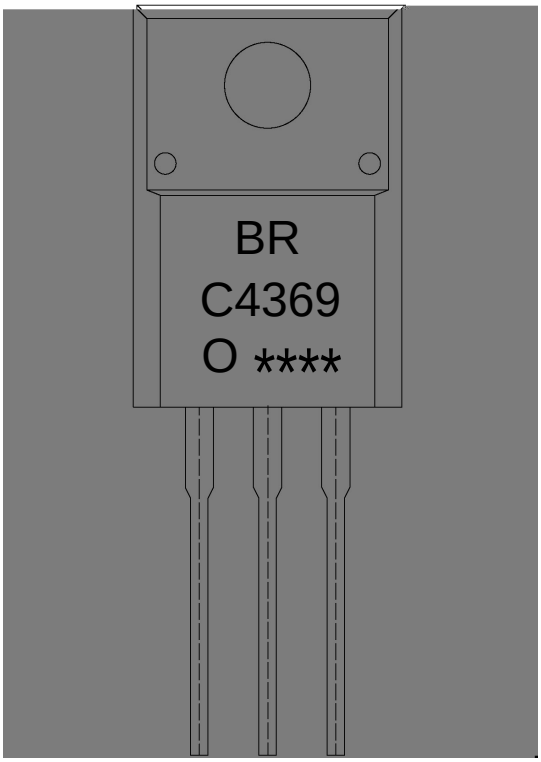

$h_{FE}$ - $I_C$




$V_{CE(sat)}$ - $I_C$




TO-220F
单位：mm
b1
C2
b
a
E
c
E1




BR

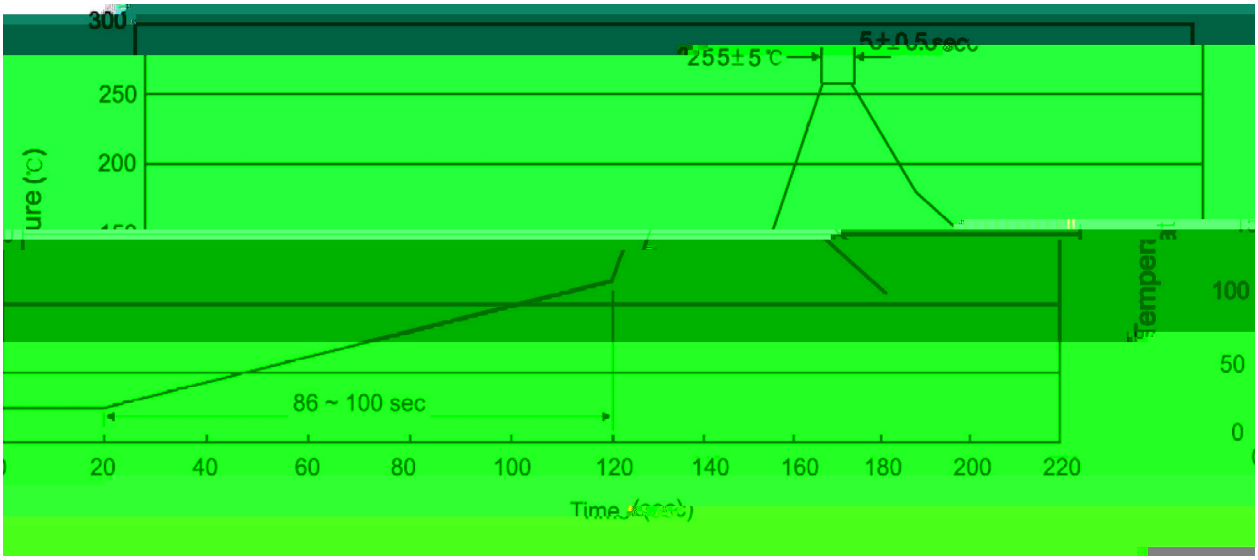
C4369

O: $h_{FE}$

****

Note:

| | |
|---|---|
| BR: | Company Code. |
| C4369: | Product Type. |
| O: | $h_{FE}$ Classifications Symbol |
| ****: | Lot No. Code, code change with Lot No. |




| | |
|---|---|
| | Note: |
| 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. |