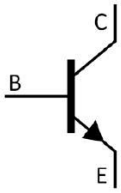
Silicon NPN transistor in a TO-92 Plastic Package.

Complementary pair with KSB564A

Audio frequency power amplifier.

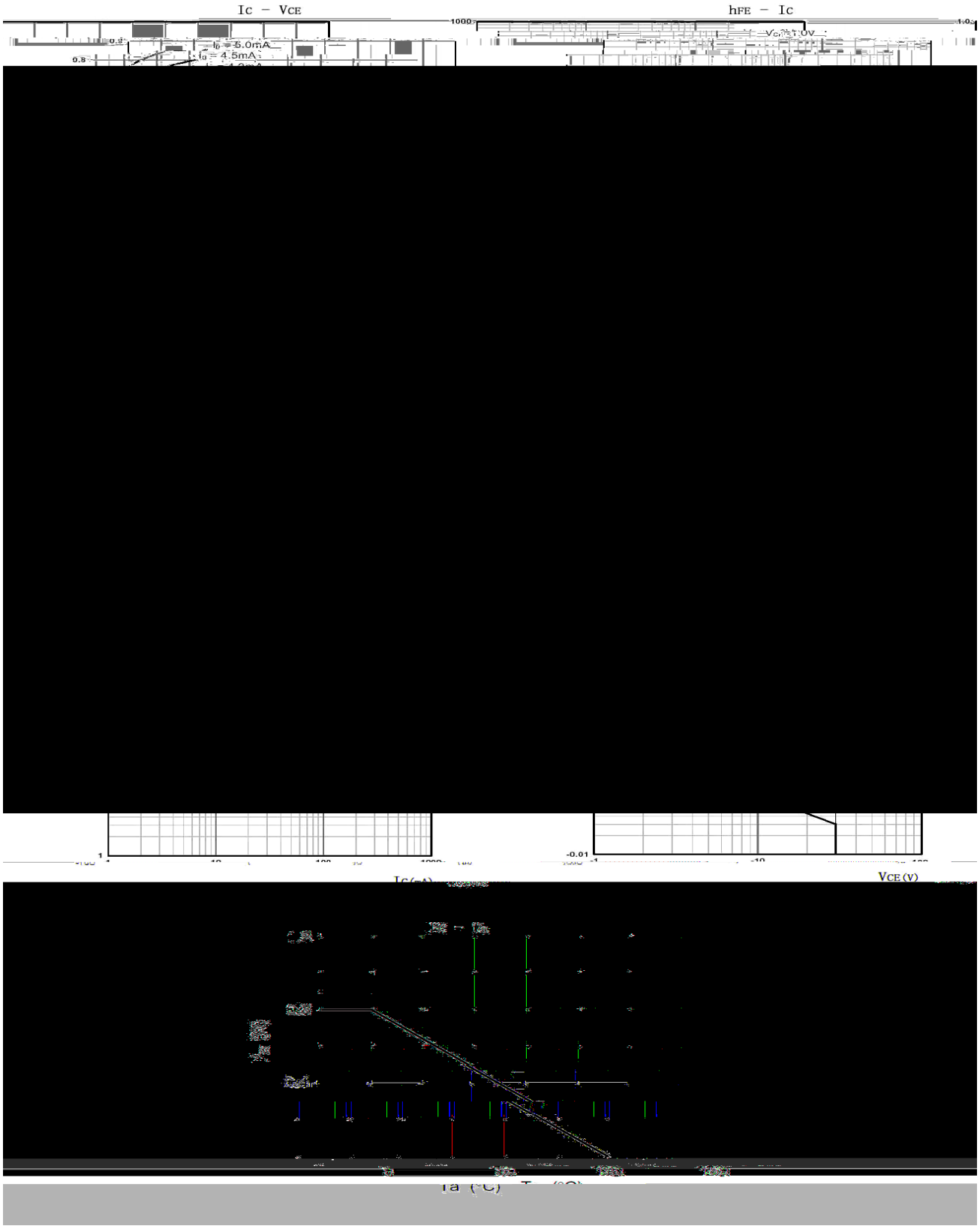


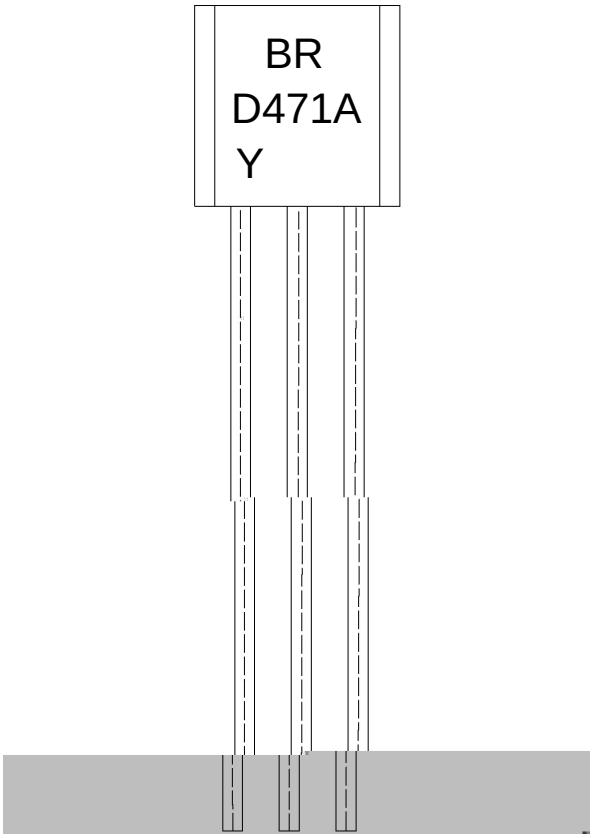



PIN1 Collector PIN 2 Base PIN 3

| Parameter | Symbol | Rating | Unit |
|---|---|---|---|
| Collector to Base Voltage | $V_{CBO}$ | 40 | V |
| Collector to Emitter Voltage | $V_{CEO}$ | 30 | V |
| Emitter to Base Voltage | $V_{EBO}$ | 5.0 | V |
| Collector Current - Continuous | $I_C$ | 1.0 | A |
| Collector Power Dissipation | $P_C$ | 800 | mW |
| 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 | $V_{CBO}$ | $I_C$=100μA $I_E$=0 | 40 | | | V |
| Collector to Emitter Breakdown Voltage | $V_{CEO}$ | $I_C$=10mA $I_B$=0 | 30 | | | V |
| Emitter to Base Breakdown Voltage | $V_{EBO}$ | $I_E$=100μA $I_C$=0 | 5.0 | | | V |
| Collector Cut-Off Current | $I_{CBO}$ | $V_{CB}$=30V $I_E$=0 | | | 0.1 | μA |
| DC Current Gain | $h_{FE}$ | $V_{CE}$=1.0V $I_C$=100mA | 70 | | 400 | |
| Collector-Emitter Saturation Voltage | $V_{CE(sat)}$ | $I_C$=1.0A $I_B$=0.1A | | | 0.5 | V |
| Base -Emitter Saturation Voltage | $V_{BE(sat)}$ | $I_C$=1.0A $I_B$=0.1A | | | 1.2 | V |
| Current Gain Bandwidth Product | $f_T$ | $V_{CE}$=6.0V $I_C$=10mA | | 130 | | MHz |
| Output Capacitance | $C_{ob}$ | $V_{CB}$=6.0V $I_E$=0 f=1.0MHz | | 16 | | pF |


Ic – VCE
hFE – Ic
IB = 5.0mA
IB = 4.5mA
VCE (V)
Ta (°C)




Note:

| | |
|---|---|
| BR: | Company Code. |
| D471A: | Product Type. |
| Y: | $h_{FE}$ Classifications Symbol |
| ****: | Lot No. Code,code change with Lot No. |




| | |
|---|---|
| 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. |

Note:

270 5 10 1 sec. Temp:270±5 Time:10±1 sec

/ BULK

| Package Type | Units | | | | | Dimension | | (unit mm3) |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

/ AMMO

| Package Type | Units | | | | | Dimension | (unit mm3) |
|---|---|---|---|---|---|---|---|
| | | | | | | | |
| | | | | | | | |