

2SD325

Low Frequency Power Amplifier Applications

©398F

. 5 Watts AF Power amplifier output use. There are complementary pair.

(): 2SB511

Absolute Maximum Ratings at Ta=25°C

| | | | |
|------------------------------|------------------|----------------------|----|
| Collector to Base Voltage | V _{CB0} | (-) 35 | V |
| Collector to Emitter Voltage | V _{CE0} | (-) 35 | V |
| Emitter to Base Voltage | V _{EB0} | (-) 5 | V |
| Collector Current | I _C | (-) 1.5 | A |
| Peak Collector Current | i _{cp} | (-) 3 | A |
| Collector Dissipation | P _C | 1.75 | W |
| | | T _c =25°C | |
| | | 10 | W |
| Junction Temperature | T _j | 150 | °C |
| Storage Temperature | T _{stg} | -55 to +150 | °C |

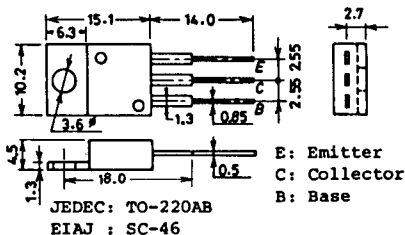
Electrical Characteristics at Ta=25°C

| | | min | typ | max |
|--------------------------|--|-----|-----|---------|
| Collector Cutoff Current | I _{CBO} V _{CB} =(-) 20V, I _E =0 | | | (-) 0.1 |
| Emitter Cutoff Current | I _{EBO} V _{EB} =(-) 4V, I _C =0 | | | (-) 1.0 |
| DC Current Gain | h _{FE} (1) V _{CE} =(-) 2V, I _C =(-) 1A | 40* | | 320* |
| | h _{FE} (2) V _{CE} =(-) 2V, I _C =(-) 0.1A | 35 | | |
| Gain Bandwidth Product | f _T V _{CE} =(-) 5V, I _C =(-) 0.5A | | 8 | |
| C-E Saturation Voltage | V _{CE(sat)} I _C =(-) 1.5A, I _B =(-) 0.15A | | | (-) 1.0 |
| Base to Emitter Voltage | V _{BE} I _C =(-) 1A, V _{CE} =(-) 5V | | | (-) 1.5 |

*: The 2SB511/2SD325 are classified by I_A h_{FE} as follows:

| | | | | | | | | | | | |
|----|---|----|----|---|-----|-----|---|-----|-----|---|-----|
| 40 | C | 80 | 60 | D | 120 | 100 | E | 200 | 160 | F | 320 |
|----|---|----|----|---|-----|-----|---|-----|-----|---|-----|

Case Outline 2010A (unit:mm)



For details, refer to the description of the 2SD325.