

## 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 <sub>CB0</sub>	(-) 35	V
Collector to Emitter Voltage	V <sub>CE0</sub>	(-) 35	V
Emitter to Base Voltage	V <sub>EB0</sub>	(-) 5	V
Collector Current	I <sub>C</sub>	(-) 1.5	A
Peak Collector Current	i <sub>cp</sub>	(-) 3	A
Collector Dissipation	P <sub>C</sub>	1.75	W
T <sub>c</sub> =25°C			
Junction Temperature	T <sub>j</sub>	150	°C
Storage Temperature	T <sub>stg</sub>	-55 to +150	°C

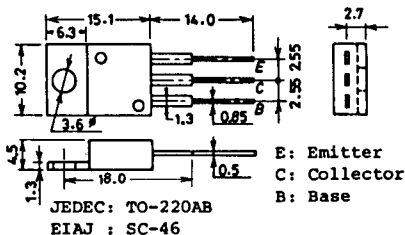
### Electrical Characteristics at Ta=25°C

		min	typ	max
Collector Cutoff Current	I <sub>CB0</sub> V <sub>CB</sub> =(-) 20V, I <sub>E</sub> =0			(-) 0.1
Emitter Cutoff Current	I <sub>EB0</sub> V <sub>EB</sub> =(-) 4V, I <sub>C</sub> =0			(-) 1.0
DC Current Gain	h <sub>FE</sub> (1) V <sub>CE</sub> =(-) 2V, I <sub>C</sub> =(-) 1A	40*		320*
	h <sub>FE</sub> (2) V <sub>CE</sub> =(-) 2V, I <sub>C</sub> =(-) 0.1A	35		
Gain Bandwidth Product	f <sub>T</sub> V <sub>CE</sub> =(-) 5V, I <sub>C</sub> =(-) 0.5A		8	
C-E Saturation Voltage	V <sub>CE(sat)</sub> I <sub>C</sub> =(-) 1.5A, I <sub>B</sub> =(-) 0.15A			(-) 1.0
Base to Emitter Voltage	V <sub>BE</sub> I <sub>C</sub> =(-) 1A, V <sub>CE</sub> =(-) 5V			(-) 1.5

\*: The 2SB511/2SD325 are classified by I<sub>A</sub> h<sub>FE</sub> as follows:

40	C	80	60	D	120	100	E	200	160	F	320
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### Case Outline 2010A (unit:mm)



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