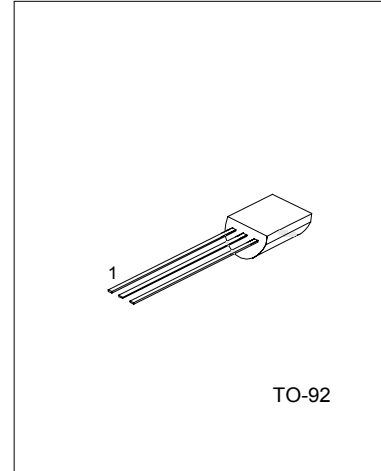


## LOW FREQUENCY POWER AMPLIFIER

### FEATURES

- \*Low frequency power amplifier
- \*Complement to 2SB562



1:EMITTER 2:COLLECTOR 3:BASE

### ABSOLUTE MAXIMUM RATINGS (Ta=25°C, unless otherwise specified)

PARAMETER	SYMBOL	VALUE	UNIT
Collector-Base Voltage	V <sub>CB0</sub>	25	V
Collector-Emitter Voltage	V <sub>CEO</sub>	20	V
Emitter-Base Voltage	V <sub>EBO</sub>	5	V
Collector Current	I <sub>c</sub>	1	A
Collector Peak Current	I <sub>c(peak)</sub>	1.5	A
Collector Power Dissipation	P <sub>c</sub>	0.9	W
Junction Temperature	T <sub>j</sub>	150	°C
Storage Temperature	T <sub>STG</sub>	-55 ~ +150	°C

### ELECTRICAL CHARACTERISTICS (Ta=25°C, unless otherwise specified)

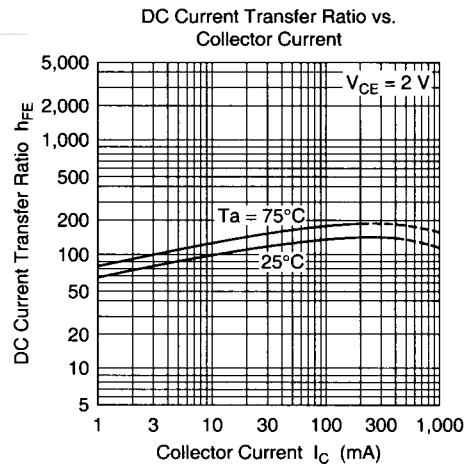
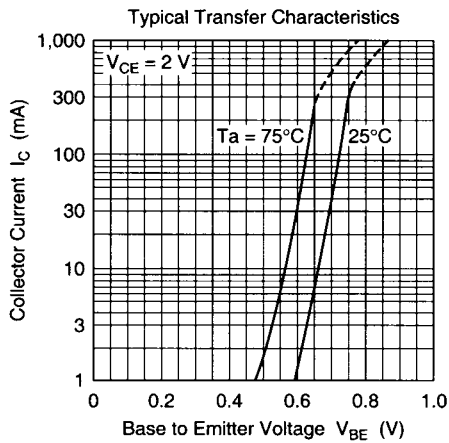
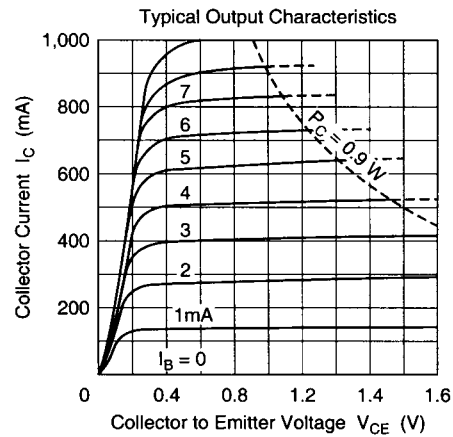
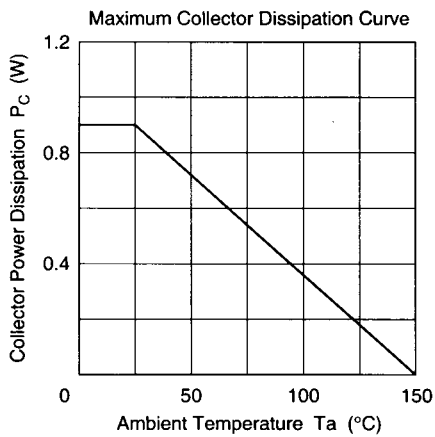
PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Collector to base breakdown voltage	V <sub>(BR)CBO</sub>	I <sub>c</sub> =10μA, I <sub>E</sub> =0	25			V
Collector to emitter breakdown voltage	V <sub>(BR)CEO</sub>	I <sub>c</sub> =1mA, R <sub>BE</sub> =∞	20			V
Emitter to base breakdown voltage	V <sub>(BR)EBO</sub>	I <sub>E</sub> =10μA, I <sub>C</sub> =0	5			V
Collector Cut-Off Current	I <sub>CBO</sub>	V <sub>CB</sub> =20V, I <sub>E</sub> =0			1	μA
DC Current transfer ratio	h <sub>FE</sub>	V <sub>CE</sub> =2V, I <sub>c</sub> =0.5A (note)	85		240	
Collector to emitter saturation voltage	V <sub>CE(sat)</sub>	I <sub>c</sub> =0.8A, I <sub>B</sub> =0.08A (note)		0.2	0.5	V
Base to emitter voltage	V <sub>BE</sub>	V <sub>CE</sub> =2V, I <sub>c</sub> =0.5A (note)		0.79	1	V
Gain bandwidth product	f <sub>T</sub>	V <sub>CE</sub> =2V, I <sub>c</sub> =0.5A (note)		190		MHz
Collector output capacitance	C <sub>ob</sub>	V <sub>CB</sub> =10V, I <sub>E</sub> =0, f=1MHz		22		pF

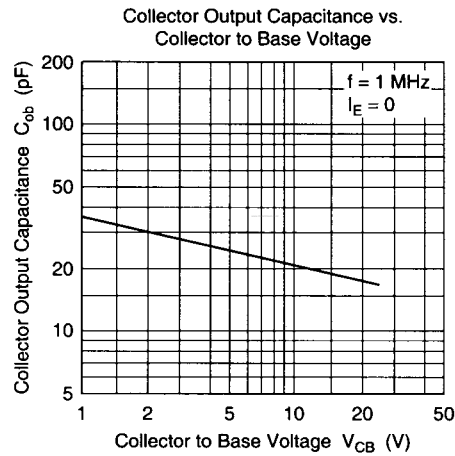
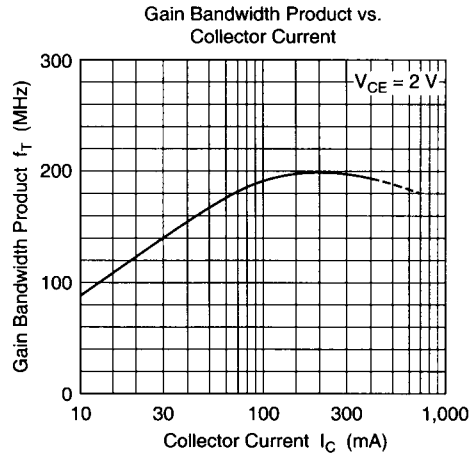
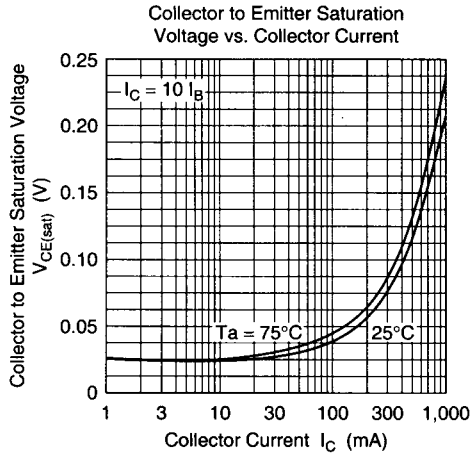
Note: Pulse test

CLASSIFICATION OF hFE

RANK	B	C
RANGE	85 - 170	120 - 240

TYPICAL PERFORMANCE CHARACTERISTICS





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