



Micro Commercial Components

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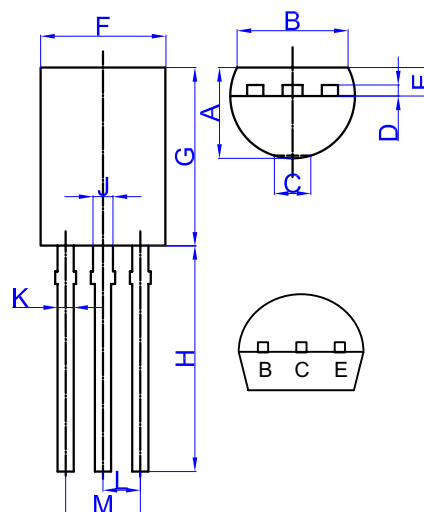
2SB562

Features

- Low Frequency Power Amplifier.
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0 and MSL Rating 1
- Complementary pair with 2SD468

PNP Epitaxial Silicon Transistor

TO-92L



DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.146	.161	3.700	4.10	
B	.157	---	4.000	---	
C	---	0.063	---	1.600	
D	.014	.018	0.350	0.450	
E	.050	.062	1.280	1.580	
F	.185	.201	4.700	5.100	
G	.307	.323	7.800	8.200	
H	.543	.559	13.80	14.20	
J	.024	.031	.600	.800	
K	.014	.022	0.350	.550	
L	.050		1.270		
M	.096	.104	2.440	2.640	

Maximum Ratings

Symbol	Rating	Rating	Unit
V_{CEO}	Collector-Emitter Voltage	-20	V
V_{CBO}	Collector-Base Voltage	-25	V
V_{EBO}	Emitter-Base Voltage	-5.0	V
I_C	Collector Current	-1.0	A
P_C	Collector power dissipation	0.9	W
T_J	Junction Temperature	-55 to +150	$^{\circ}\text{C}$
T_{STG}	Storage Temperature	-55 to +150	$^{\circ}\text{C}$

Electrical Characteristics @ 25 $^{\circ}\text{C}$ Unless Otherwise Specified

Symbol	Parameter	Min	Typ	Max	Units
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OFF CHARACTERISTICS

BV_{CBO}	Collector-Base Breakdown Voltage ($I_C = -10 \mu\text{A}$, $I_E = 0$)	-20	---	---	Vdc
BV_{CEO}	Collector-Emitter Breakdown Voltage ($I_C = -1\text{mA}$, $I_E = 0$)	-25	---	---	Vdc
BV_{EBO}	Emitter-Base Breakdown Voltage ($I_E = -0.01\text{mA}$, $I_C = 0$)	-5.0	---	---	Vdc
I_{CBO}	Collector Cutoff Current ($V_{CB} = -20\text{Vdc}$, $I_E = 0$)	---	---	-1000	nAdc
I_{EBO}	Emitter Cutoff Current ($V_{EB} = -4.0\text{Vdc}$, $I_C = 0$)	---	---	-1000	nAdc

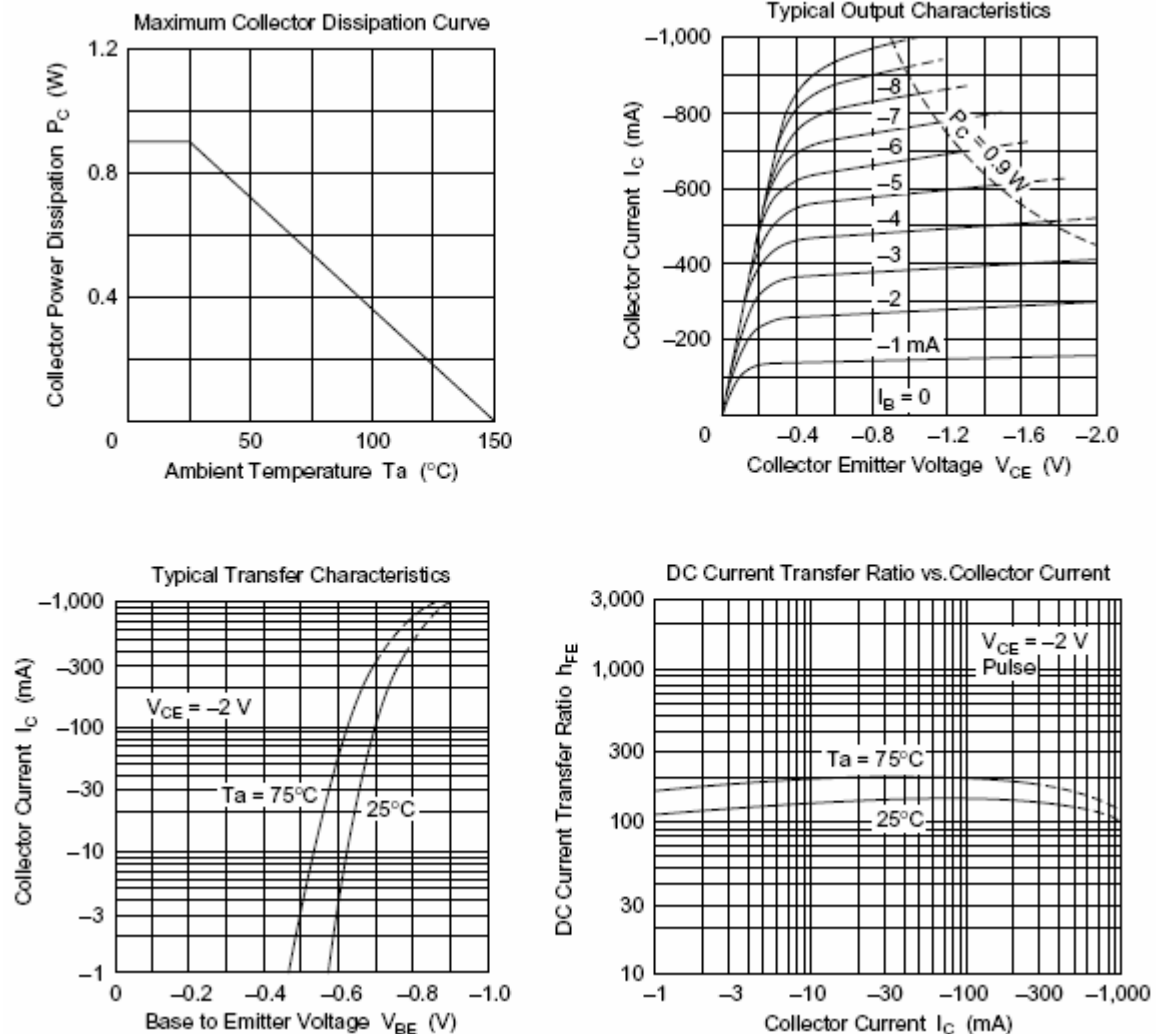
ON CHARACTERISTICS

h_{FE}	DC Current gain ($I_C = 500\text{mA}$, $V_{CE} = 2.0\text{Vdc}$)	85	---	240	---
$V_{BE(on)}$	Base-Emitter On Voltage ($V_{CE} = -2.0\text{Vdc}$, $I_C = 500\text{mA}$)	---	---	-1.0	Vdc
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage ($I_C = -0.8\text{A}$, $I_E = -80\text{mA}$)	---	---	-0.5	Vdc
f_T	Current Gain Bandwidth Product ($V_{CE} = -2.0\text{Vdc}$, $I_C = 500\text{mA}$)	---	350	---	MHz
C_{ob}	Output Capacitance ($V_{CB} = -10\text{Vdc}$, $I_E = 0$, $f = 1.0\text{MHz}$)	---	38	---	pF

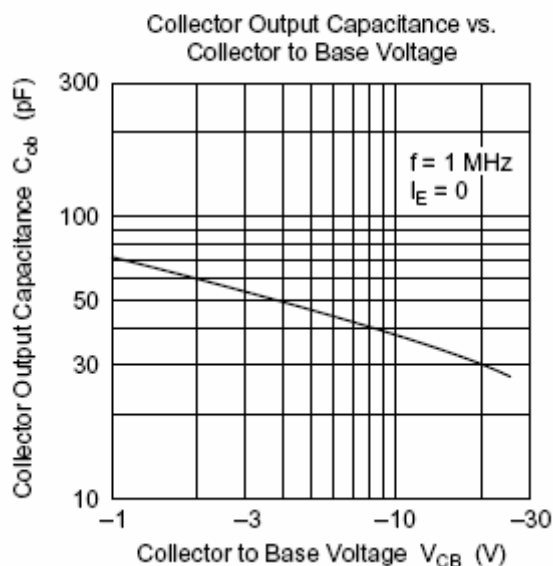
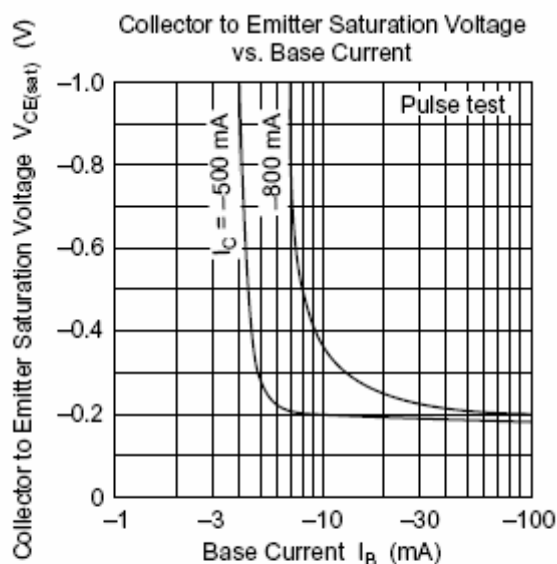
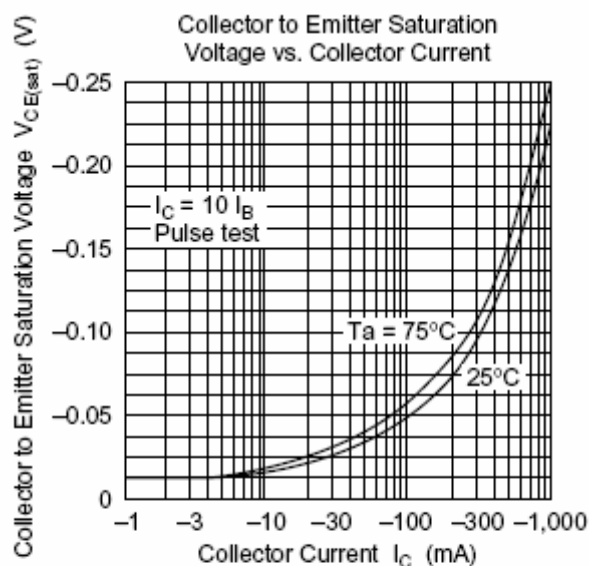
(1) h_{FE} Classification B: 85~170, C: 120~240

2SB562

Typical Characteristics



Typical Characteristics



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