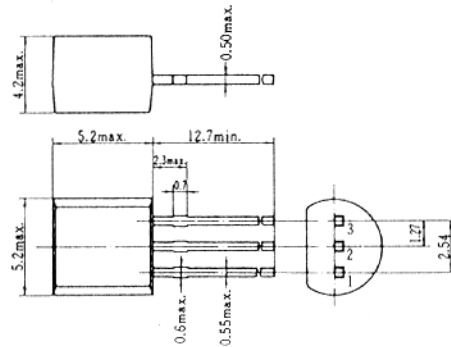


2SB561

SILICON PNP EPITAXIAL

LOW FREQUENCY POWER AMPLIFIER

Complementary pair with 2SD467



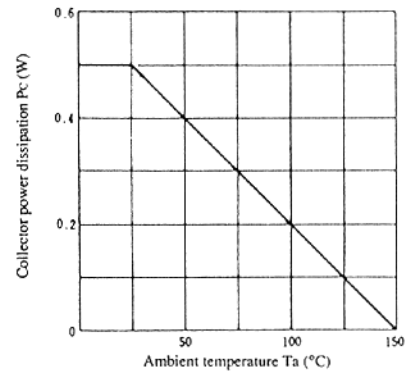
1. Emitter
2. Collector
3. Base
(Dimensions in mm)

(JEDEC TO-92)

■ ABSOLUTE MAXIMUM RATINGS (Ta=25°C)

Item	Symbol	2SB561	Unit
Collector to base voltage	V _{CB0}	-25	V
Collector to emitter voltage	V _{CEO}	-20	V
Emitter to base voltage	V _{EBO}	-5	V
Collector current	I _C	-0.7	A
Collector peak current	i _{C(peak)}	-1.0	A
Collector power dissipation	P _C	0.5	W
Junction temperature	T _j	150	°C
Storage temperature	T _{stg}	-55 to +150	°C

MAXIMUM COLLECTOR DISSIPATION CURVE



■ ELECTRICAL CHARACTERISTICS (Ta=25°C)

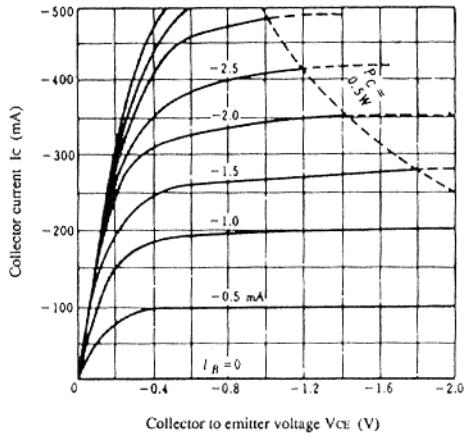
Item	Symbol	Test Condition	min.	typ.	max.	Unit
Collector to base breakdown voltage	V _{(BR)CBO}	I _C = -10μA, I _E = 0	-25	—	—	V
Collector to emitter breakdown voltage	V _{(BR)CEO}	I _C = -1mA, R _{BE} = ∞	-20	—	—	V
Emitter to base breakdown voltage	V _{(BR)EBO}	I _E = -10μA, I _C = 0	-5	—	—	V
Collector cutoff current	I _{CBO}	V _{CB} = -20V, I _E = 0	—	—	-1.0	μA
DC current transfer ratio	h _{FE} *	V _{CE} = -1V, I _C = -0.15A (Pulse Test)	85	—	240	
Collector to emitter saturation voltage	V _{CE(sat)}	I _C = -0.5A, I _B = -0.05A	—	-0.2	-0.5	V
Base to emitter voltage	V _{BE}	V _{CE} = -1V, I _C = -0.15A	—	-0.75	-1.0	V
Gain bandwidth product	f _r	V _{CE} = -1V, I _C = -0.15A	—	350	—	MHz
Collector output capacitance	C _{ob}	V _{CB} = -10V, I _E = 0, f = 1MHz	—	20	—	pF

* The 2SB561 is grouped by h_{FE} as follows.

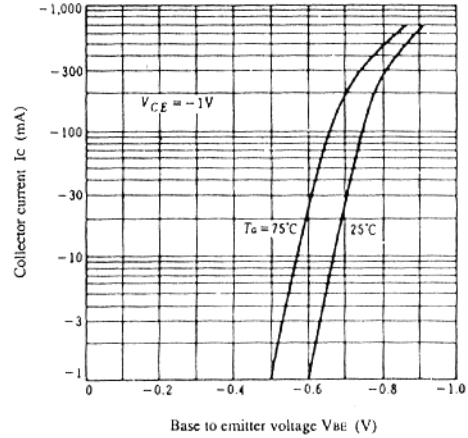
B	C
85 to 170	120 to 240

2SB561

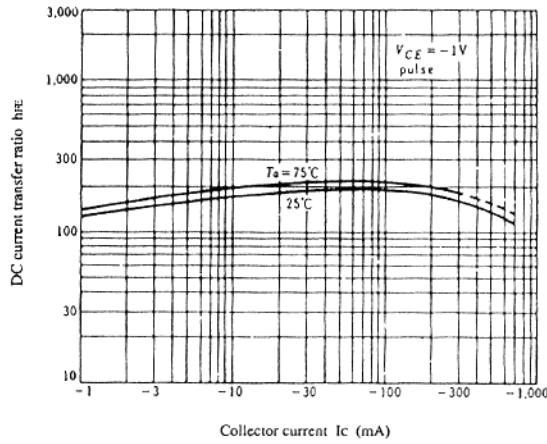
TYPICAL OUTPUT CHARACTERISTICS



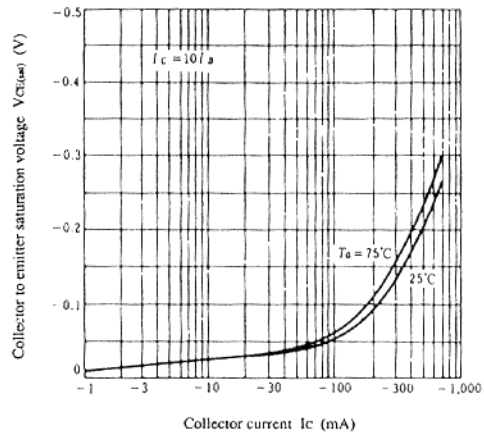
TYPICAL TRANSFER CHARACTERISTICS



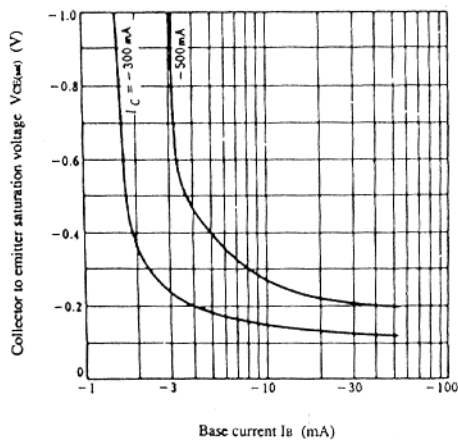
DC CURRENT TRANSFER RATIO VS. COLLECTOR CURRENT



COLLECTOR TO EMITTER SATURATION VOLTAGE VS. COLLECTOR CURRENT



COLLECTOR TO EMITTER SATURATION VOLTAGE VS. BASE CURRENT



COLLECTOR OUTPUT CAPACITANCE VS. COLLECTOR TO BASE VOLTAGE

