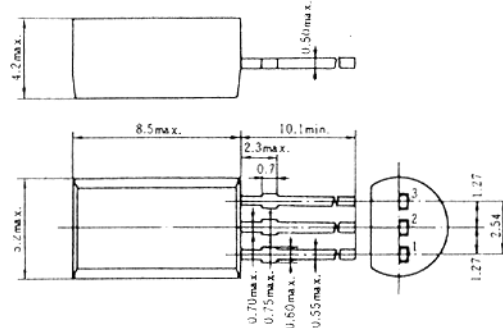


2SB740

SILICON PNP EPITAXIAL

LOW FREQUENCY POWER AMPLIFIER

Complementary pair with 2SD789



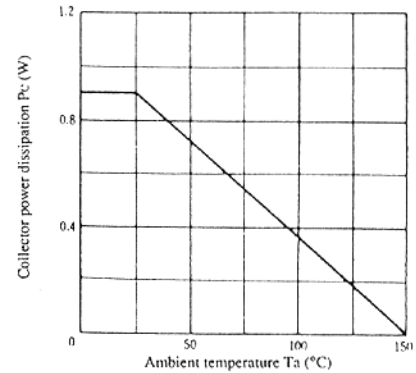
(JEDEC TO-92 MOD.)

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

■ ABSOLUTE MAXIMUM RATINGS (Ta=25°C)

Item	Symbol	2SB740	Unit
Collector to base voltage	V _{CB0}	-70	V
Collector to emitter voltage	V _{CE0}	-50	V
Emitter to base voltage	V _{EB0}	-6	V
Collector current	I _C	-1	A
Collector power dissipation	P _C	0.9	W
Junction temperature	T _j	150	°C
Storage temperature	T _{stg}	-55 to +150	°C

MAXIMUM COLLECTOR DISSIPATION CURVE



■ ELECTRICAL CHARACTERISTICS (Ta=25°C)

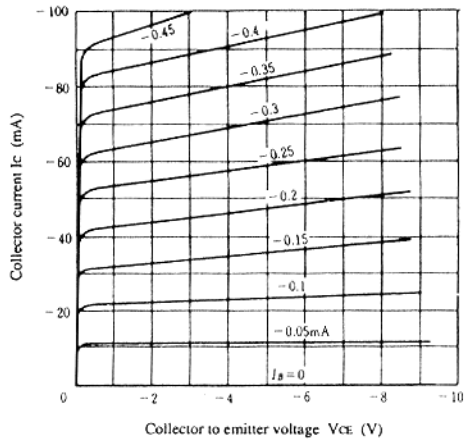
Item	Symbol	Test Condition	min.	typ.	max.	Unit
Collector to base breakdown voltage	V _{(BR)CBO}	I _C = -10μA, I _E = 0	-70	—	—	V
Collector to emitter breakdown voltage	V _{(BR)CEO}	I _C = -1mA, R _{BE} = ∞	-50	—	—	V
Emitter to base breakdown voltage	V _{(BR)EBO}	I _E = -10μA, I _C = 0	-6	—	—	V
Collector cutoff current	I _{CBO}	V _{CB} = -55V, I _E = 0	—	—	-1	μA
Emitter cutoff current	I _{EBO}	V _{EB} = -6V, I _C = 0	—	—	-0.2	μA
DC current transfer ratio	h _{FE} *	V _{CE} = -2V, I _C = -0.1A	100	—	320	
Collector to emitter saturation voltage	V _{CE(sat)}	I _C = -1A, I _B = -0.1A	—	—	-0.6	V
Gain bandwidth product	f _T	V _{CE} = -2V, I _C = -10mA	—	150	—	MHz
Collector output capacitance	C _{ob}	V _{CB} = -10V, I _E = 0, f = 1MHz	—	35	—	pF

* The 2SB740 is grouped by h_{FE} as follows.

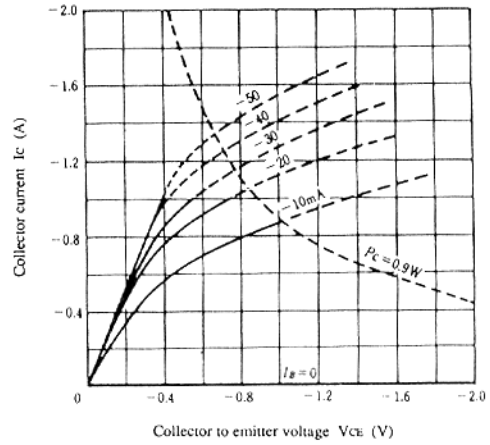
B	C
100 to 200	160 to 320

2SB740

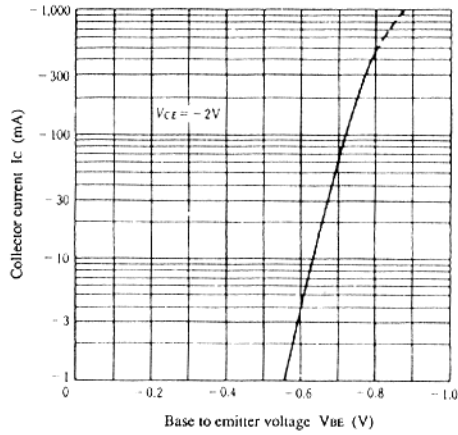
TYPICAL OUTPUT CHARACTERISTICS (1)



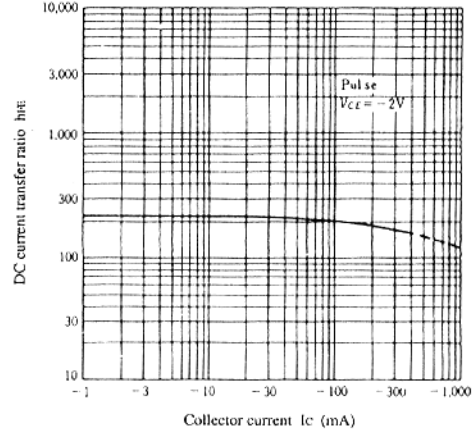
TYPICAL OUTPUT CHARACTERISTICS (2)



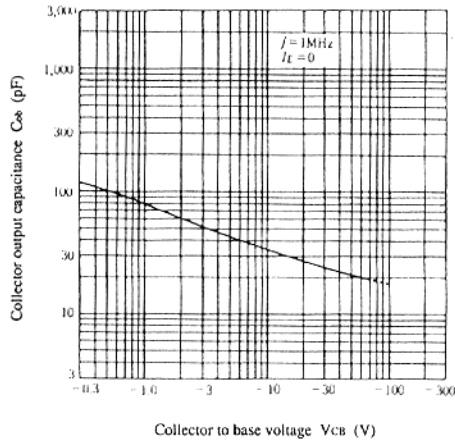
TYPICAL TRANSFER CHARACTERISTICS



DC CURRENT TRANSFER RATIO VS. COLLECTOR CURRENT



COLLECTOR OUTPUT CAPACITANCE VS. COLLECTOR TO BASE VOLTAGE



SATURATION VOLTAGE VS. COLLECTOR CURRENT

