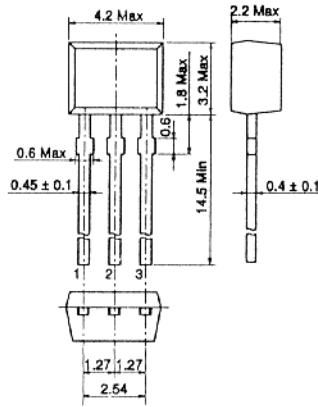


2SA1374

SILICON PNP EPITAXIAL
LOW FREQUENCY AMPLIFIER



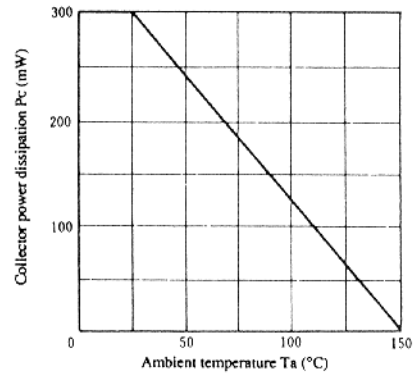
(SPAK)

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

■ ABSOLUTE MAXIMUM RATINGS (Ta=25°C)

Item	Symbol	2SA1374	Unit
Collector to base voltage	V _{CB0}	-55	V
Collector to emitter voltage	V _{CE0}	-55	V
Emitter to base voltage	V _{EBO}	-5	V
Collector current	I _C	-100	mA
Base current	I _B	-30	mA
Collector power dissipation	P _C	300	mW
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	-55	—	—	V
Collector to emitter breakdown voltage	V _{(BR)CEO}	I _C = -1mA, R _{BE} = ∞	-55	—	—	V
Emitter to base breakdown voltage	V _{(BR)EBO}	I _E = -10μA, I _C = 0	-5	—	—	V
Collector cutoff current	I _{CBO}	V _{CB} = -18V, I _E = 0	—	—	-0.1	μA
Emitter cutoff current	I _{EBO}	V _{EB} = -2V, I _C = 0	—	—	-0.05	μA
DC current transfer ratio	h _{FE} *	V _{CE} = -12V, I _C = -2mA	160	—	500	
Base to emitter voltage	V _{BE}	V _{CE} = -12V, I _C = -2mA	—	-0.66	-0.75	V
Collector to emitter saturation voltage	V _{CE(sat)}	I _C = -10mA, I _B = -1mA	—	-0.1	-0.5	V
Gain bandwidth product	f _T	V _{CE} = -12V, I _C = -2mA	—	250	—	MHz
Collector output capacitance	C _{ob}	V _{CB} = -10V, I _E = 0, f = 1MHz	—	2.5	—	pF

* The 2SA1374 is grouped by h_{FE} as follows.

C	D
160 to 320	250 to 500

■ See characteristic curves of 2SA836.