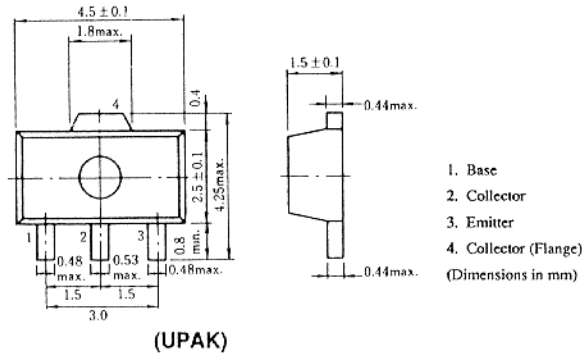


2SB1028

SILICON PNP EPITAXIAL

LOW FREQUENCY POWER AMPLIFIER



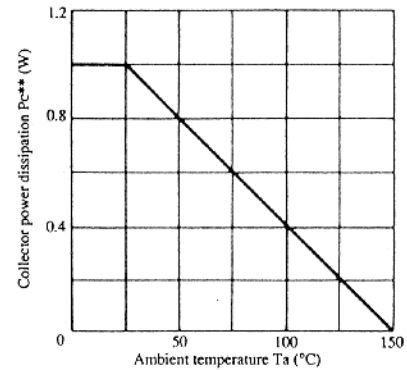
■ ABSOLUTE MAXIMUM RATINGS (Ta=25°C)

Item	Symbol	2SB1028	Unit
Collector to base voltage	V _{CB0}	-180	V
Collector to emitter voltage	V _{CE0}	-160	V
Emitter to base voltage	V _{EBO}	-5	V
Collector current	I _C	-1.5	A
Collector peak current	i _{C(peak)*}	-3	A
Collector power dissipation	P _{C**}	1	W
Junction temperature	T _j	150	°C
Storage temperature	T _{stg}	-55 to +150	°C

* PW ≤ 10ms, Duty cycle ≤ 20%

** Value on the alumina ceramic board (12.5 × 20 × 0.7mm)

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 = -1mA, I _E = 0	-180	—	—	V
Collector to emitter breakdown voltage	V _{(BR)CEO}	I _C = -10mA, R _{BE} = ∞	-160	—	—	V
Emitter to base breakdown voltage	V _{(BR)EBO}	I _E = -1mA, I _C = 0	-5	—	—	V
Collector cutoff current	I _{CBO}	V _{CB} = -160V, I _E = 0	—	—	-10	μA
DC current transfer ratio	h _{FE1} *	V _{CE} = -5V, I _C = -0.15A, pulse	60	—	200	
	h _{FE2}	V _{CE} = -5V, I _C = -0.5A, pulse	30	—	—	
Collector to emitter saturation voltage	V _{CE(sat)}	I _C = -0.5A, I _B = -50mA, pulse	—	—	-1.0	V
Base to emitter voltage	V _{BE}	I _{CE} = -5V, I _C = -0.15A, pulse	—	—	-0.9	V

* The 2SB1028 is grouped by h_{FE1} as follows.

Mark	EL	EM
h _{FE1}	60 to 120	100 to 200

2SB1028

