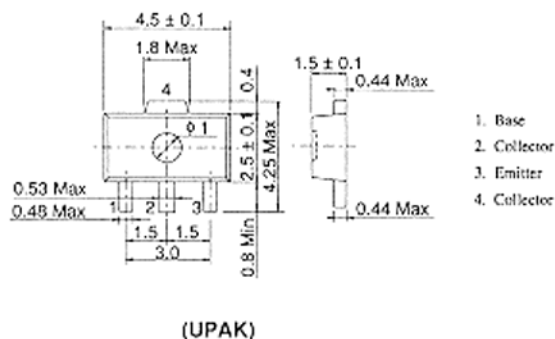


2SC3338

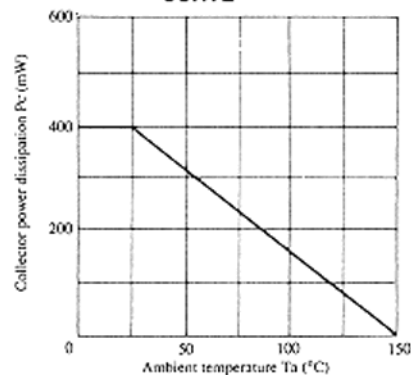
SILICON NPN EPITAXIAL
UHF/VHF WIDE BAND AMPLIFIER



■ ABSOLUTE MAXIMUM RATINGS (Ta=25°C)

Item	Symbol	2SC3338	Unit
Collector to base voltage	V _{CB0}	20	V
Collector to emitter voltage	V _{CE0}	12	V
Emitter to base voltage	V _{EB0}	3	V
Collector current	I _c	50	mA
Collector power dissipation	P _c	400	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	20	—	—	V
Collector to emitter breakdown voltage	V _{(BR)CEO}	I _c = 1mA, R _{BE} = ∞	12	—	—	V
Emitter cutoff current	I _{EBO}	V _{EB} = 3V, I _c = 0	—	—	10	μA
Collector cutoff current	I _{CBO}	V _{CB} = 15V, I _c = 0	—	—	0.5	μA
DC current transfer ratio	h _{FE}	V _{CE} = 5V, I _c = 20mA	30	90	200	
Collector output capacitance	C _{ob}	V _{CB} = 5V, I _E = 0, f = 1MHz	—	1.0	1.5	pF
Gain bandwidth product	f _r	V _{CE} = 5V, I _c = 20mA	3.5	4.5	—	GHz
Power gain	PG	V _{CE} = 5V, I _c = 20mA, f = 900MHz	—	8.2	—	dB
Noise figure	NF	V _{CE} = 5V, I _c = 5mA, f = 900MHz	—	2.0	—	dB

* Marking is "AR".

■ See characteristic curves of 2SC3126.