2SC4537

Silicon NPN Epitaxial

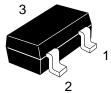
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Application

UHF / VHF wide band amplifier

Outline

CMPAK



- 1. Emitter
- 2. Base
- 3. Collector

2SC4537

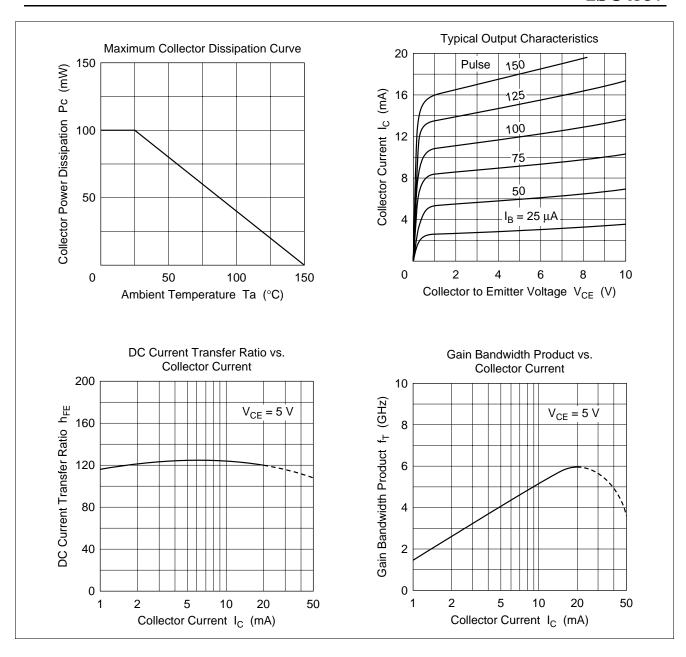
Absolute Maximum Ratings (Ta = 25°C)

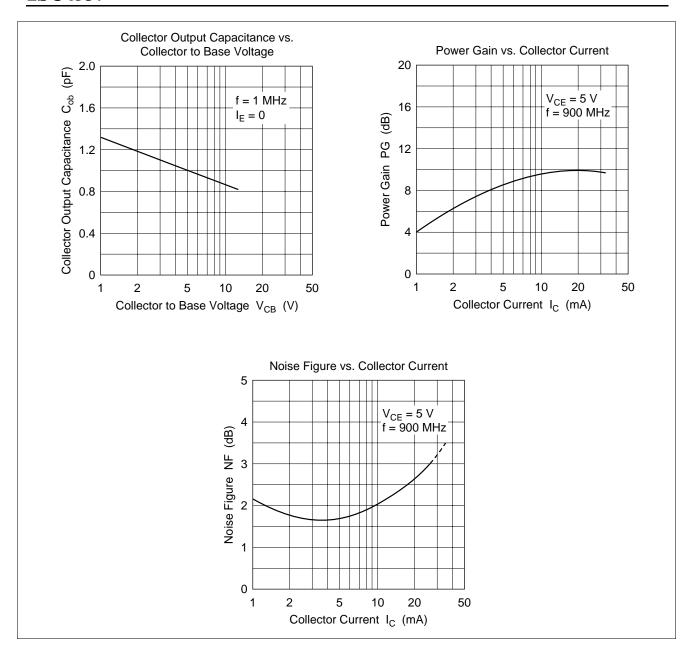
Item	Symbol	Ratings	Unit
Collector to base voltage	V_{CBO}	15	V
Collector to emitter voltage	V_{CEO}	11	V
Emitter to base voltage	V_{EBO}	2	V
Collector current	I _c	50	mA
Collector power dissipation	P _c	100	mW
Junction temperature	Tj	150	°C
Storage temperature	Tstg	-55 to +150	°C

Electrical Characteristics (Ta = 25°C)

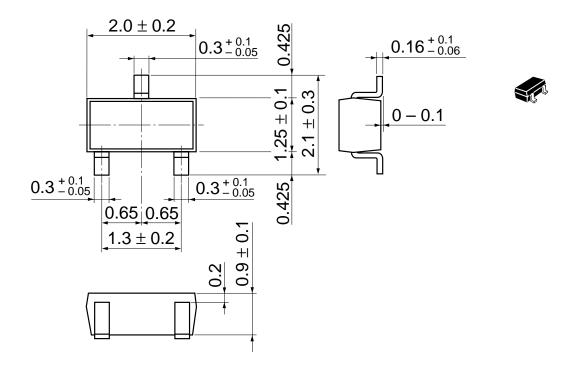
Item	Symbol	Min	Тур	Max	Unit	Test conditions
Collector to base breakdown voltage	$V_{(BR)CBO}$	15	_	_	V	$I_{c} = 10 \ \mu A, \ I_{E} = 0$
Collector cutoff current	I _{CBO}	_	_	1	μΑ	V _{CB} = 12 V, I _E = 0
Collector cutoff current	I _{CEO}	_	_	1	μΑ	V _{CE} = 10 V, I _E = ∞
Emitter cutoff current	I _{EBO}	_	_	1	μΑ	$V_{EB} = 1 \text{ V}, I_{C} = 0$
DC current transfer ratio	h_{\scriptscriptstyleFE}	50	120	250	_	$V_{CE} = 5 \text{ V}, I_{C} = 20 \text{ mA}$
Collector output capacitance	Cob	_	1.0	1.5	pF	$V_{CB} = 5 \text{ V}, I_{E} = 0,$ f = 1MHz
Gain bandwidth product	f _T	4.5	6.0	_	GHz	$V_{CE} = 5 \text{ V}, I_{C} = 20 \text{ mA}$
Power gain	PG	_	10	_	dB	$V_{CE} = 5 \text{ V}, I_{C} = 20 \text{ mA},$ f = 900 MHz
Noise figure	NF	_	1.6	_	dB	$V_{CE} = 5 \text{ V}, I_{C} = 5 \text{ mA},$ f = 900 MHz

Note: Marking is "IS-".





Unit: mm



Hitachi Code	CMPAK
JEDEC	
EIAJ	Conforms
Weight (reference value)	0.006 g

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