2SC4265

Silicon NPN Epitaxial

HITACHI

Application

VHF RF amplifier, Local oscillator, Mixer

Outline

CMPAK

3
1
1. Emitter
2. Base
3. Collector



2SC4265

Absolute Maximum Ratings ($Ta = 25^{\circ}C$)

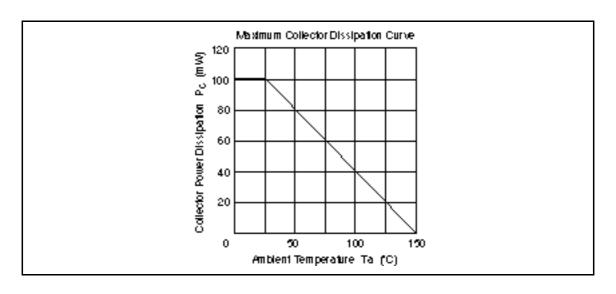
Item	Symbol	Ratings	Unit
Collector to base voltage	V_{CBO}	30	V
Collector to emitter voltage	V_{CEO}	20	V
Emitter to base voltage	V_{EBO}	3	V
Collector current	I _c	50	mA
Collector power dissipation	P _c	100	mW
Junction temperature	Tj	150	°C
Storage temperature	Tstg	-55 to +150	°C

Electrical Characteristics ($Ta = 25^{\circ}C$)

Item	Symbol	Min	Тур	Max	Unit	Test conditions
Collector to base breakdown voltage	$V_{(BR)CBO}$	30	_	_	V	$I_{\rm C} = 10 \ \mu A, \ I_{\rm E} = 0$
Collector to emitter breakdown voltage	$V_{(BR)CEO}$	20	_	_	V	$I_C = 1 \text{ mA}, R_{BE} =$
Collector cutoff current	I _{CBO}		_	0.5	μA	$V_{CE} = 15 \text{ V}, I_{E} = 0$
Emitter cutoff current	I _{EBO}	_	_	10	μΑ	$V_{EB} = 3 \text{ V}, I_{C} = 0$
Collector to emitter saturation voltage	$V_{\text{CE(sat)}}$	_	_	1.0	V	$I_{\rm C}$ = 20 mA, $I_{\rm B}$ = 4 mA
DC current transfer ratio	h _{FE}	40	_	_		$V_{CE} = 10 \text{ V}, I_{C} = 10 \text{ mA}$
Collector output capacitance	Cob	_	_	1.5	pF	$V_{CB} = 10 \text{ V}, I_{E} = 0, f = 1 \text{ MHz}$
Gain bandwidth product	f⊤	600	_	_	MHz	$V_{CE} = 10 \text{ V}, I_{C} = 10 \text{ mA}$

Note: Marking is "JC".

See characteristic curves of 2SC2735.



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