2SC4260

Silicon NPN Epitaxial

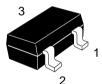
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Application

UHF frequency converter, Wide band amplifier

Outline

CMPAK



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



2SC4260

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

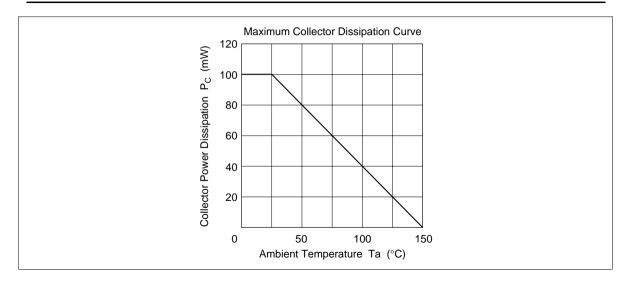
Item	Symbol	Ratings	Unit
Collector to base voltage	V_{CBO}	25	V
Collector to emitter voltage	V _{CEO}	13	V
Emitter to base voltage	V_{EBO}	3	V
Collector current	I _c	50	mA
Collector power dissipation	P _c	100	mW
Junction temperature	Tj	150	°C
Storage temperature	Tstg	-55 to +150	°C

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

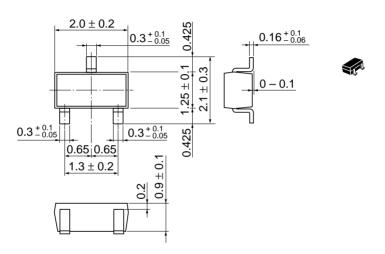
Item	Symbol	Min	Тур	Max	Unit	Test conditions
Collector to base breakdown voltage	$V_{(BR)CBO}$	25	_	_	V	$I_{c} = 10 \ \mu A, \ I_{E} = 0$
Collector cutoff current	I _{CBO}	_	_	0.1	μΑ	$V_{CB} = 15 \text{ V}, I_{E} = 0$
	I _{CEO}		_	10	μΑ	V _{CE} = 13 V, R _{BE} = ∞
Emitter cutoff current	I _{EBO}	_	_	0.3	μΑ	$V_{EB} = 3 \text{ V}, I_{C} = 0$
Collector to emitter saturation voltage	$V_{\text{CE(sat)}}$	_	_	0.3	V	$I_C = 20 \text{ mA}, I_B = 4 \text{ mA}$
DC current transfer ratio	h_{FE}	50	_	180		$V_{CE} = 5 \text{ V}, I_{C} = 5 \text{ mA}$
Collector output capacitance	Cob	_	0.85	1.3	pF	$V_{CB} = 10 \text{ V}, I_{E} = 0, f = 1 \text{MHz}$
Gain bandwidth product	f _T	3.0	3.8	_	GHz	$V_{CE} = 5 \text{ V}, I_{C} = 5 \text{ mA}$
Conversion gain	CG	_	19	_	dB	$V_{cc} = 5 \text{ V}, I_{c} = 0.8 \text{ mA},$ f = 900 MHz
Noise figure	NF	_	8	_	dB	$f_{OSC} = 930 \text{ MHz (-5dBm)},$ $f_{out} = 30 \text{ MHz}$

Note: Marking is "TI-".

See characteristic curves of 2SC4197.



Unit: mm



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

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