
2SC4262

Silicon NPN Epitaxial

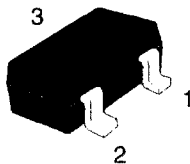
HITACHI

Application

UHF / VHF Local oscillator

Outline

CMPAK



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

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

Item	Symbol	Ratings	Unit
Collector to base voltage	V_{CBO}	20	V
Collector to emitter voltage	V_{CEO}	15	V
Emitter to base voltage	V_{EBO}	3	V
Collector current	I_C	50	mA
Collector power dissipation	P_C	100	mW
Junction temperature	T_j	150	$^\circ\text{C}$
Storage temperature	T_{stg}	-55 to +150	$^\circ\text{C}$

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

Item	Symbol	Min	Typ	Max	Unit	Test conditions
Collector to base breakdown voltage	$V_{(BR)CBO}$	20	—	—	V	$I_C = 10 \mu\text{A}$, $I_E = 0$
Collector to emitter breakdown voltage	$V_{(BR)CEO}$	15	—	—	V	$I_C = 1 \text{ mA}$, $R_{BE} = \infty$
Collector cutoff current	I_{CBO}	—	—	0.5	μA	$V_{CB} = 15 \text{ V}$, $I_E = 0$
Emitter cutoff current	I_{EBO}	—	—	1.0	μA	$V_{EB} = 3 \text{ V}$, $I_C = 0$
Collector to emitter saturation voltage	$V_{CE(sat)}$	—	—	0.5	V	$I_C = 20 \text{ mA}$, $I_B = 4 \text{ mA}$
DC current transfer ratio	h_{FE}	50	—	200		$V_{CE} = 10 \text{ V}$, $I_C = 5 \text{ mA}$
Collector output capacitance	C_{ob}	—	—	1.0	pF	$V_{CB} = 10 \text{ V}$, $I_E = 0$, $f = 1 \text{ MHz}$
Gain bandwidth product	f_T	1.4	2.9	—	GHz	$V_{CE} = 10 \text{ V}$, $I_C = 5 \text{ mA}$

Note: Marking is "IP-".

See characteristic curves of 2SC3793.

