2SC4965

Silicon NPN Epitaxial

HITACHI

ADE-208-006
1st. Edition

Application

VHF / UHF RF switch

Features

- Low Ron and high performance for RF switch.
- Capable of high density mounting.

Outline

CMPAK



1. Emitter
2. Base
3. Collector

Absolute Maximum Ratings (Ta = 25°C)

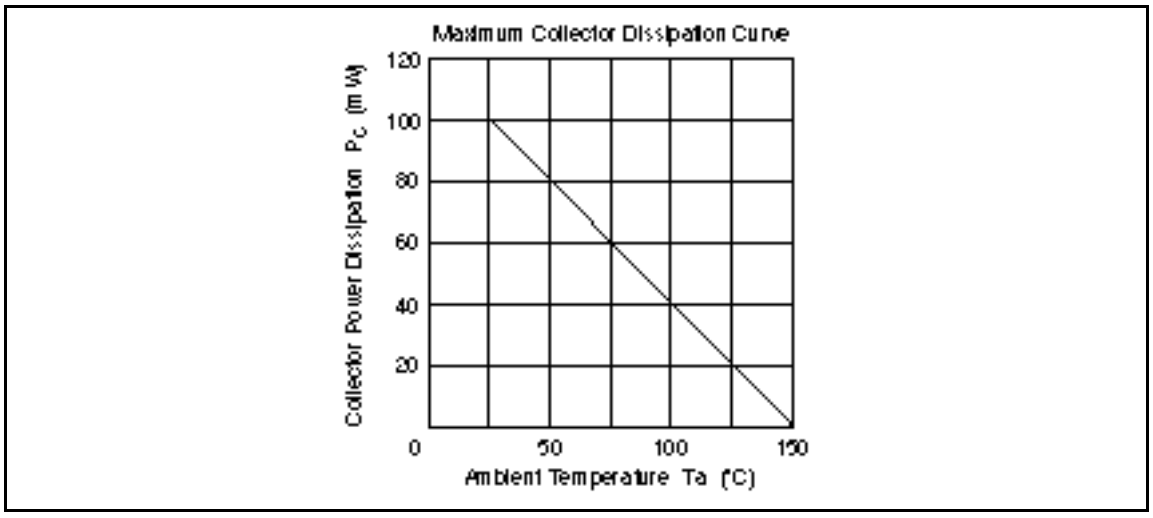
Item	Symbol	Ratings	Unit
Collector to base voltage	V_{CBO}	12	V
Collector to emitter voltage	V_{CEO}	8	V
Emitter to base voltage	V_{EBO}	3	V
Collector current	I_C	100	mA
Collector power dissipation	P_C	100	mW
Junction temperature	Tj	150	°C
Storage temperature	Tstg	–55 to +150	°C

Electrical Characteristics (Ta = 25°C)

Item	Symbol	Min	Typ	Max	Unit	Test conditions
Collector to base breakdown voltage	$V_{(BR)CBO}$	12	—	—	V	I_C = 10 µA, I_E = 0
Collector cutoff current	I_{CBO}	—	—	10	µA	V_{CB} = 10 V, I_E = 0
	I_{CEO}	—	—	1	mA	V_{CE} = 8 V, R_{BE} = ∞
Emitter cutoff current	I_{EBO}	—	—	10	µA	V_{EB} = 3 V, I_C = 0
DC current transfer ratio	h_{FE}	100	250	600		V_{CE} = 5 V, I_C = 5 mA
Collector to emitter saturation voltage	$V_{CE(sat)}$	—	150	300	mV	I_C = 80 mA, I_B = 5 mA
Collector output capacitance	Cob	—	1.9	1.6	pF	V_{CB} = 5 V, I_E = 0, f = 1 MHz
On resistance	Ron	—	1.2	—	Ω	I_B = 2.5 mA, f = 1 kHz

Note: Marking is “YV–”.

See characteristic curves of 2SC4964.



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