

2SC4965

Silicon NPN Bipolar Transistor

Application

VHF & UHF wide band amplifire

Features

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

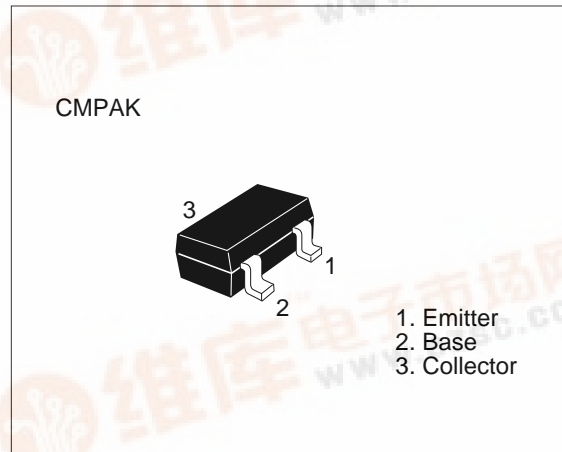


Table 1 Absolute Maximum Ratings (Ta = 25°C)

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	T_j	150	°C
Storage temperature	T_{stg}	-55 to +150	°C

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Table 2 Electrical Characteristics (Ta = 25°C)

Item	Symbol	Min	Typ	Max	Unit	Test conditions
Collector to base breakdown voltage	$V_{(BR)CBO}$	12	—	—	V	$I_C = 10 \mu A$ $I_E = 0$
Collector cutoff current	I_{CBO}	—	—	10	μA	$V_{CB} = 10 V$, $I_E = 0$
	I_{CEO}	—	—	1	mA	$V_{CE} = 8 V$, $R_{BE} = \infty$
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	$I_C = 80 mA$ $I_B = 5 mA$
Output capacitance	C_{ob}	—	1.9	1.6	pF	$V_{CB} = 5 V$, $I_E = 0$, $f = 1 MHz$
On resistance	R_{on}	—	1.2	—	Ω	$I_B = 2.5 mA$ $f = 1 kHz$

Note: Marking of 2SC4965 is "YV-".