# 2SC4985

# Silicon NPN triple diffusion planar type

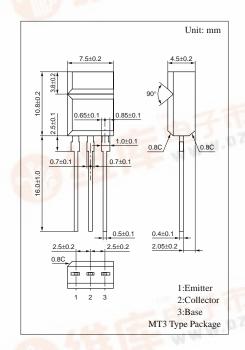
For high breakdown voltage high-speed switching

### Features

- High collector to base voltage V<sub>CBO</sub>
- High collector to emitter V<sub>CEO</sub>
- Allowing automatic insertion with radial taping

## Absolute Maximum Ratings (Ta=25°C)

Parameter	Symbol	Ratings	Unit
Collector to base voltage	$V_{CBO}$	900	V
Collector to emitter voltage	V <sub>CEO</sub>	800	V
Emitter to base voltage	$V_{\mathrm{EBO}}$	7	V
Peak collector current	$I_{CP}$	2	A
Collector current	$I_{C}$	1	A
Collector power dissipation	$P_{C}$	1.5	W
Junction temperature	T <sub>j</sub>	150	°C
Storage temperature	$T_{stg}$	-55 to +150	°C

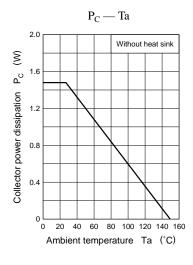


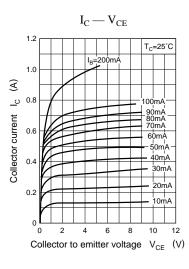
### Electrical Characteristics (Ta=25°C)

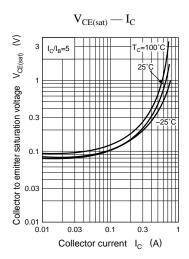
Parameter	Symbol	Conditions	min	typ	max	Unit
Collector cutoff current	$I_{CBO}$	$V_{CB} = 900V, I_{E} = 0$			50	μΑ
Emitter cutoff current	I <sub>EBO</sub>	$V_{EB} = 7V, I_{C} = 0$			50	μА
Collector to emitter voltage	V <sub>CEO</sub>	$I_C = 1 \text{mA}, I_B = 0$	800			V
Forward current transfer ratio	h <sub>FE1</sub>	$V_{CE} = 5V, I_{C} = 50mA$	6			M WIN
	h <sub>FE2</sub>	$V_{CE} = 5V, I_{C} = 500mA$	3		- 4	
Collector to emitter saturation voltage	V <sub>CE(sat)</sub>	$I_C = 200 \text{mA}, I_B = 40 \text{mA}$			1.5	V
Base to emitter saturation voltage	V <sub>BE(sat)</sub>	$I_C = 200 \text{mA}, I_B = 40 \text{mA}$			1	V
Transition frequency	$f_T$	$V_{CB} = 10V, I_E = -50mA, f = 200MHz$		80		MHz
Turn-on time	t <sub>on</sub>	I 200 A I 40 A I 90 A			1	μs
Storage time	t <sub>stg</sub>	$I_C = 200 \text{mA}, I_{B1} = 40 \text{mA}, I_{B2} = -80 \text{mA},$			3	μs
Fall time	$t_{\rm f}$	$V_{CC} = 250V$			1	μs

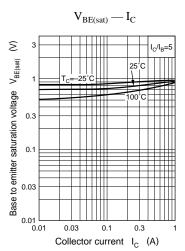


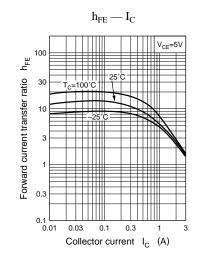
Power Transistors 2SC4985

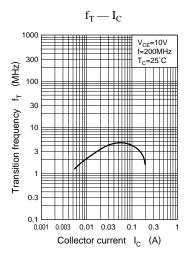












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