2SC4985

Silicon NPN triple diffusion planar type

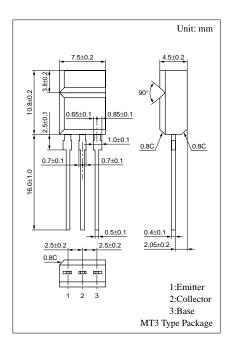
For high breakdown voltage high-speed switching

Features

- High collector to base voltage V_{CBO}
- High collector to emitter V_{CEO}
- 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_{CEO}	800	V
Emitter to base voltage	$V_{\rm EBO}$	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 _j	150	°C
Storage temperature	T_{stg}	-55 to +150	°C

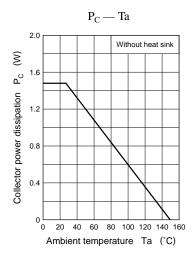


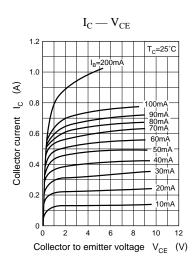
Electrical Characteristics (Ta=25°C)

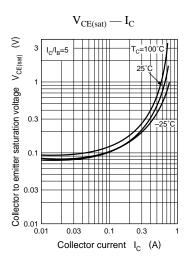
Parameter	Symbol	Conditions	min	typ	max	Unit
Collector cutoff current	I_{CBO}	$V_{CB} = 900V, I_E = 0$			50	μΑ
Emitter cutoff current	I_{EBO}	$V_{EB} = 7V, I_{C} = 0$			50	μА
Collector to emitter voltage	V _{CEO}	$I_C = 1 \text{mA}, I_B = 0$	800			V
Forward current transfer ratio	h _{FE1}	$V_{CE} = 5V,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

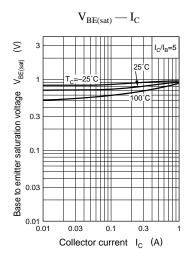
Panasonic 1

Power Transistors 2SC4985

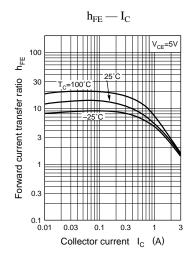


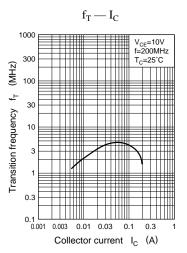






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