# 2SC4986

### Silicon NPN triple diffusion planar type

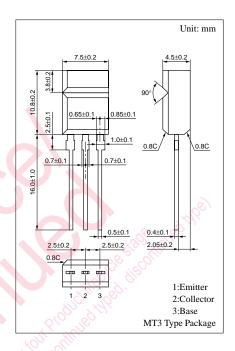
For high breakdown voltage high-speed switching

#### Features

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

#### Absolute Maximum Ratings (Ta=25°C)

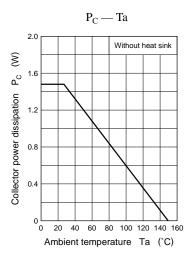
Parameter	Symbol	Ratings	Unit	
Collector to base voltage	V <sub>CBO</sub>	500	V	
Collector to emitter voltage	V <sub>CEO</sub>	400	V	
Emitter to base voltage	V <sub>EBO</sub>	7	V	
Peak collector current	$I_{CP}$	4	A	
Collector current	I <sub>C</sub>	2	A	
Collector power dissipation	P <sub>C</sub>	1.5	W	
Junction temperature	T <sub>j</sub>	150	°C	
Storage temperature	$T_{\rm stg}$	-55 to +150	°C	

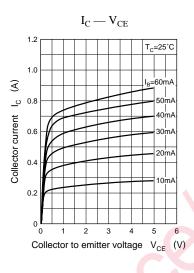


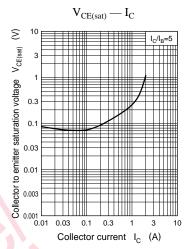
#### Electrical Characteristics (Ta=25°C)

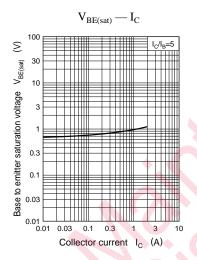
Parameter	Symbol	Conditions	min	typ	max	Unit
Collector cutoff current	$I_{CBO}$	$V_{CB} = 500V, I_{E} = 0$			100	μΑ
Emitter cutoff current	I <sub>EBO</sub>	$V_{EB} = 5V, I_{C} = 0$			100	μΑ
Forward current transfer ratio	h <sub>FE1</sub>	$V_{CE} = 5V, I_{C} = 100mA$	15			
	h <sub>FE2</sub>	$V_{CE} = 5V, I_{C} = 1A$	8			
Collector to emitter saturation voltage	V <sub>CE(sat)</sub>	$I_C = 1A, I_B = 0.2A$			1	V
Base to emitter saturation voltage	V <sub>BE(sat)</sub>	$I_C = 1A, I_B = 0.2A$			1.5	V
Transition frequency	$f_{T}$	$V_{CB} = 10V, I_E = -200mA, f = 200MHz$		120		MHz
Turn-on time	ton	1 14 1 024 1 024			1	μs
Storage time	t <sub>stg</sub>	$I_C = 1A$ , $I_{B1} = 0.2A$ , $I_{B2} = -0.2A$ ,			3	μs
Fall time	$t_{\rm f}$	$V_{CC} = 150V$			1	μs

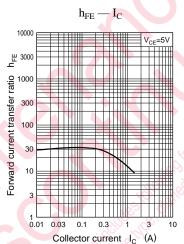
Power Transistors 2SC4986

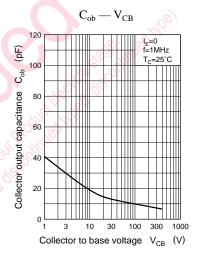












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