Features

Transistor

2SC5346

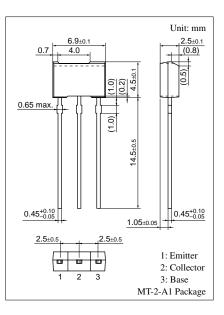
 \bullet Satisfactory linearity of forward current transfer ratio h_{FE}

Silicon NPN epitaxial planar type

- \bullet High collector to emitter voltage $V_{\mbox{\scriptsize CEO}}$
- \bullet Small collector output capacitance C_{ob}

Parameter	Symbol	Rating	Unit
Collector to base voltage	V _{CBO}	150	V
Collector to emitter voltage	V _{CEO}	150	V
Emitter to base voltage	V _{EBO}	5	V
Peak collector current	I _{CP}	100	mA
Collector current	I _C	50	mA
Collector power dissipation *	P _C	1.0	W
Junction temperature	Tj	150	°C
Storage temperature	T _{stg}	-55 to +150	°C

Absolute Maximum Ratings $T_a = 25^{\circ}C$



Note) *: Printed circuit board: Copper foil area of 1 cm² or more, and the board thickness of 1.7 mm for the collector portion

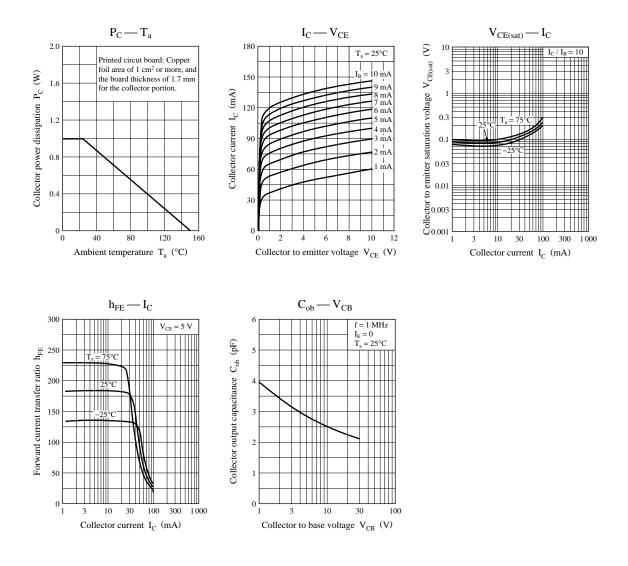
Electrical Characteristics $T_a = 25^{\circ}C$

Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Collector cutoff current	I _{CBO}	$V_{CB} = 100 \text{ V}, I_E = 0$			1	μΑ
Collector to emitter voltage	V _{CEO}	$I_{\rm C} = 0.1 \text{ mA}, I_{\rm B} = 0$	150			V
Emitter to base voltage	V _{EBO}	$I_E = 10 \ \mu A, \ I_C = 0$	5			V
Forward current transfer ratio *	h _{FE}	$V_{CE} = 5 V, I_C = 10 mA$	130		330	
Collector to emitter saturation voltage	V _{CE(sat)}	$I_{\rm C} = 30 \text{ mA}, I_{\rm B} = 3 \text{ mA}$			1	V
Noise voltage	NV	$V_{CE} = 10 \text{ V}, I_C = 1 \text{ mA}, G_V = 80 \text{ dB}$		150	300	mV
		$R_g = 100 \text{ k}\Omega$, Function = FLAT				
Transition frequency	f _T	$V_{CB} = 10 \text{ V}, I_E = -10 \text{ mA}, f = 200 \text{ MHz}$		160		MHz
Collector output capacitance	C _{ob}	$V_{CB} = 10 \text{ V}, I_E = 0, f = 1 \text{ MHz}$			5	pF

Note) *: h_{FE} Rank classification

Rank	R	S
h _{FE}	130 to 220	185 to 330

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