

Transistors

●Electrical characteristics (Ta = 25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Collector-base breakdown voltage	BV _{CB0}	40	–	–	V	I _c = 100μA
Collector-emitter breakdown voltage	BV _{CEO}	32	–	–	V	I _c = 1mA
Emitter-base breakdown voltage	BV _{EBO}	5	–	–	V	I _E = 100μA
Collector cutoff current	I _{cBO}	–	–	1	μA	V _{CB} = 20V
Emitter cutoff current	I _{EBO}	–	–	1	μA	V _{EB} = 4V
DC current transfer ratio	h _{FE}	120	–	390	–	V _{CE} = 3V, I _c = 10mA
Collector-emitter saturation voltage	V _{CE(sat)}	–	–	0.6	V	I _c /I _B = 500mA/50mA
Transition frequency	f _T	–	250	–	MHz	V _{CE} = 5V, I _E = –20mA, f = 100MHz
Output capacitance	C _{ob}	–	6.5	–	pF	V _{CB} = 10V, I _E = 0A, f = 1MHz

●Packaging Specifications and h_{FE}

Type	h _{FE}	Package	Taping
		Code	T106
		Basic ordering unit (pieces)	3000
2SC4097	QR		○

h_{FE} values are classified as follows:

Item	Q	R
h _{FE}	120 to 270	180 to 390

●Electrical characteristic curves

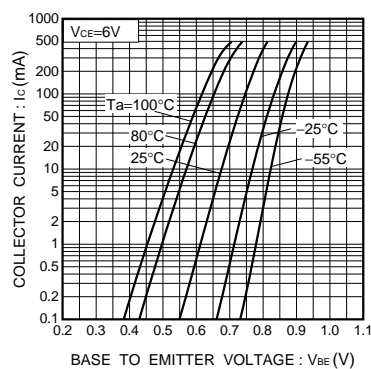


Fig.1 Grounded emitter propagation characteristics

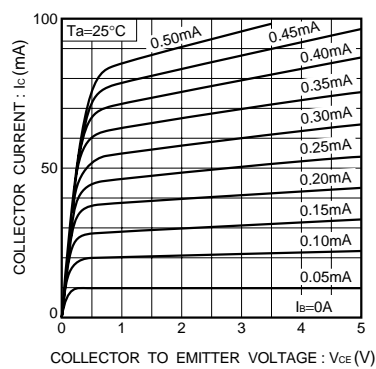


Fig.2 Grounded emitter output characteristics (I)

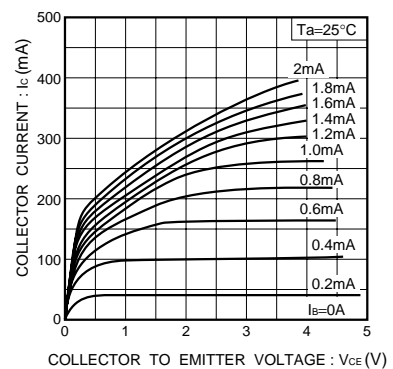


Fig.3 Grounded emitter output characteristics (II)

Transistors

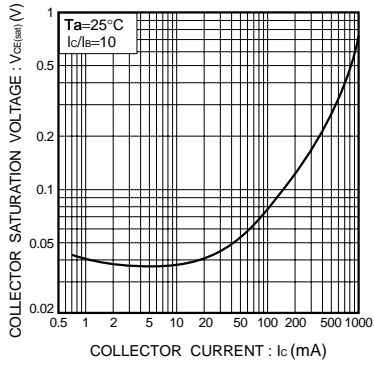


Fig.4 Collector-emitter saturation voltage vs. collector current

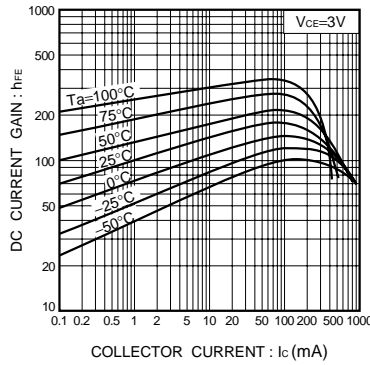


Fig.5 DC current gain vs. collector current

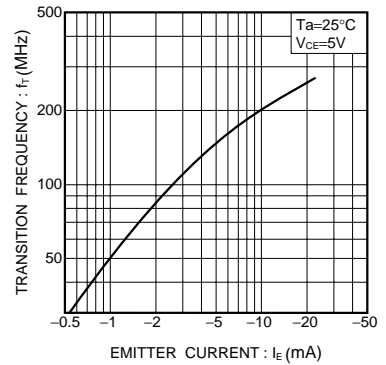


Fig.6 Gain bandwidth product vs. emitter current

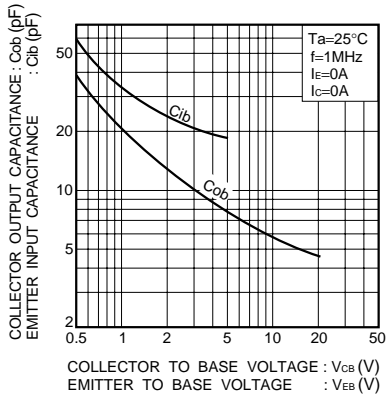


Fig.7 Collector output capacitance vs. collector-base voltage
Emitter input capacitance vs. emitter-base voltage

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- Техническая поддержка проекта;
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Как с нами связаться

Телефон: 8 (812) 309 58 32 (многоканальный)

Факс: 8 (812) 320-02-42

Электронная почта: org@eplast1.ru

Адрес: 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.