

Transistors

●Electrical characteristics (Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Collector-base breakdown voltage	BV _{CB0}	40	–	–	V	I _C =50μA
Collector-emitter breakdown voltage	BV _{CE0}	20	–	–	V	I _C =1mA
Emitter-base breakdown voltage	BV _{EB0}	6	–	–	V	I _E =50μA
Collector cutoff current	I _{CB0}	–	–	0.1	μA	V _{CB} =30V
Emitter cutoff current	I _{EB0}	–	–	0.1	μA	V _{EB} =5V
Collector-emitter saturation voltage	V _{CE(sat)}	–	0.2	0.5	V	I _C /I _B =2A/0.1A *
DC current transfer ratio	h _{FE}	180	–	390	–	V _{CE} =2V, I _C =0.1A
Transition frequency	f _T	–	290	–	MHz	V _{CE} =2V, I _E =–0.5A, f=100MHz
Output capacitance	C _{ob}	–	25	–	pF	V _{CE} =10V, I _E =0A, f=1MHz

* Measured using pulse current.

●Packaging specifications and h_{FE}

Type	h _{FE}	Package	Taping
		Code	TV2
		Basic ordering unit (pieces)	2500
2SD2264	R		○

h_{FE} values are classified as follows :

Item	R
h _{FE}	180 to 390

●Electrical characteristic curves

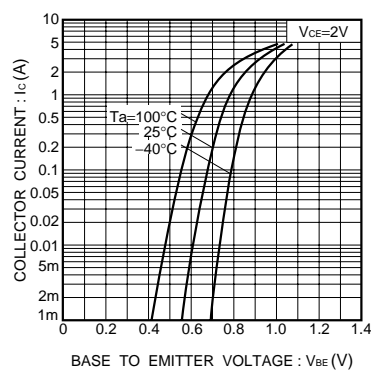


Fig.1 Grounded emitter propagation characteristics

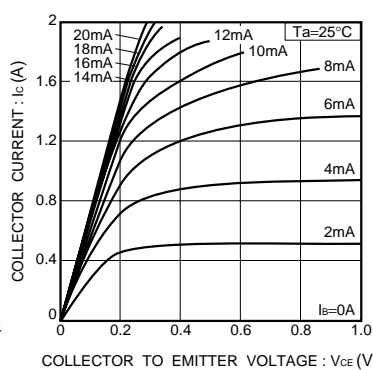


Fig.2 Grounded emitter output characteristics (I)

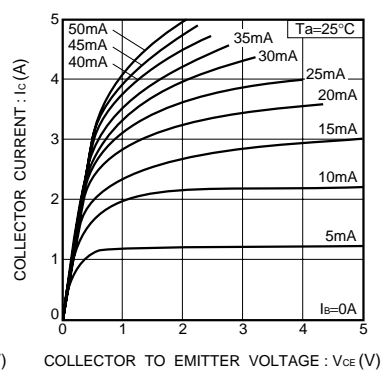


Fig.3 Grounded emitter output characteristics (II)

Transistors

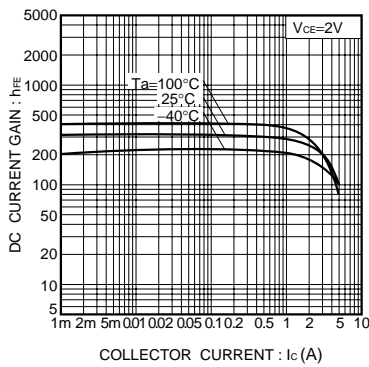


Fig.4 DC current gain vs. collector current

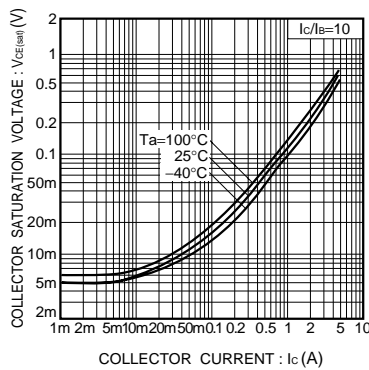


Fig.5 Collector-emitter saturation voltage vs. collector current (I)

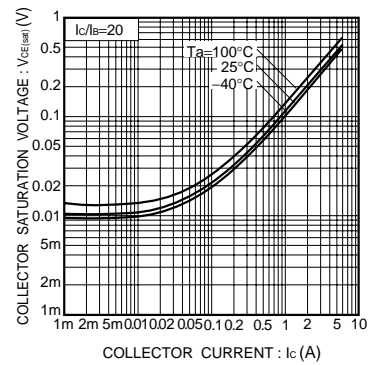


Fig.6 Collector-emitter saturation voltage vs. collector current (II)

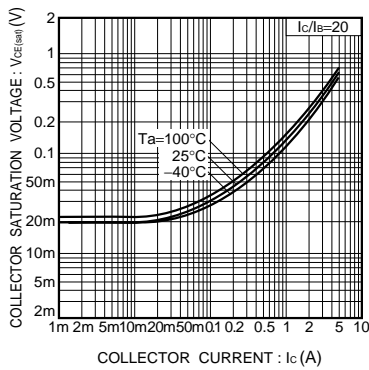


Fig.7 Collector-emitter saturation voltage vs. collector current (III)

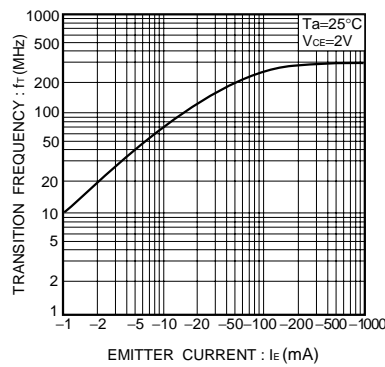


Fig.8 Gain bandwidth product vs. emitter current

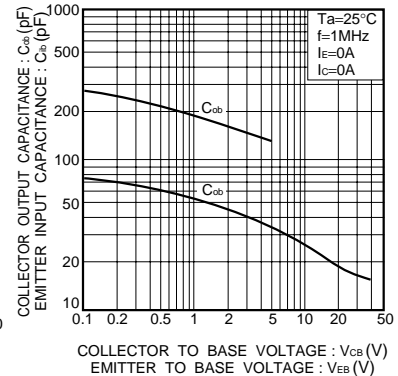


Fig.9 Collector output capacitance vs. collector-base voltage
Emitter input capacitance vs. emitter-base voltage

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