

Transistor

●Electrical characteristics (Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Collector-base breakdown voltage	BV _{CB0}	60	-	-	V	I _C =100μA
Collector-emitter breakdown voltage	BV _{CEO}	60	-	-	V	I _C =1mA
Emitter-base breakdown voltage	BV _{EB0}	6	-	-	V	I _E =100μA
Collector cut-off current	I _{CB0}	-	-	1.0	μA	V _{CB} =40V
Emitter cut-off current	I _{EB0}	-	-	1.0	μA	V _{EB} =4V
Collector-emitter saturation voltage	V _{CE(sat)}	-	150	300	mV	I _C =100mA, I _B =10mA
DC current gain	h _{FE}	120	-	390	-	V _{CE} =2V, I _C =50mA
Transition frequency	f _T	-	300	-	MHz	V _{CE} =10V, I _E =-100mA, f=10MHz *1
Collector output capacitance	C _{ob}	-	5	-	pF	V _{CB} =10V, I _E =0mA, f=1MHz
Turn-on time	T _{on}	-	70	-	ns	I _C =500mA, I _{B1} =50mA
Storage time	T _{stg}	-	130	-	ns	I _{B2} =-50mA
Fall time	T _f	-	80	-	ns	V _{CC} =25V *1

*1 Pulse measurement

●h_{FE} RANK

Q	R
120-270	180-390

●Electrical characteristic curves

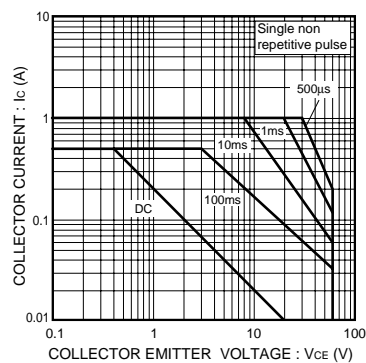


Fig.1 Safe operating area

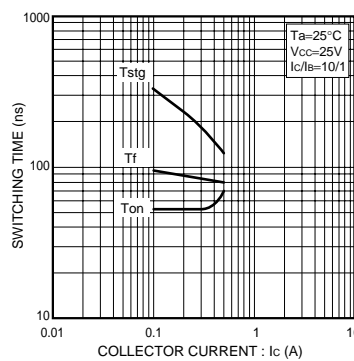


Fig.2 Switching Time

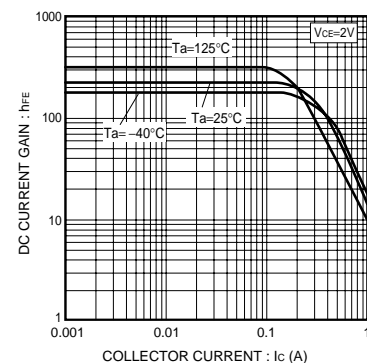


Fig.3 DC current gain vs. collector current

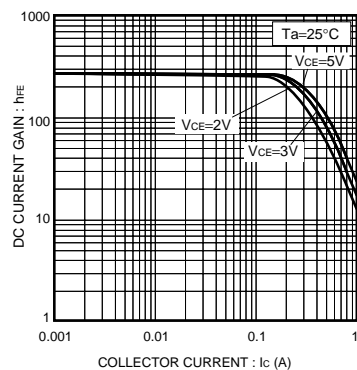


Fig.4 DC current gain vs. collector current

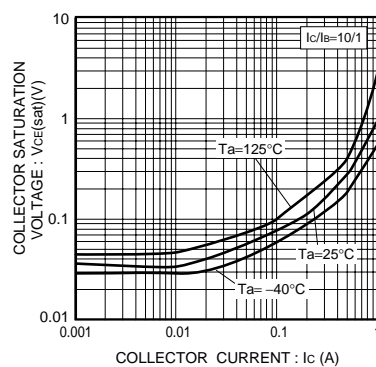


Fig.5 Collector-emitter saturation voltage vs. collector current

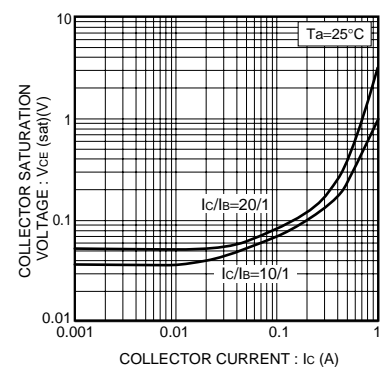


Fig.6 Collector-emitter saturation voltage vs. collector current

Transistor

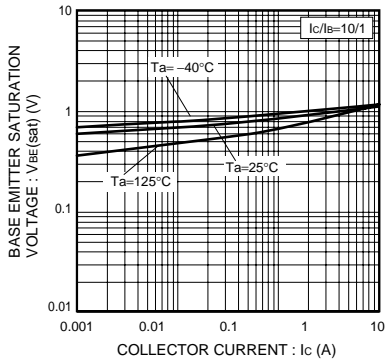


Fig.7 Base-emitter saturation voltage vs. collector current

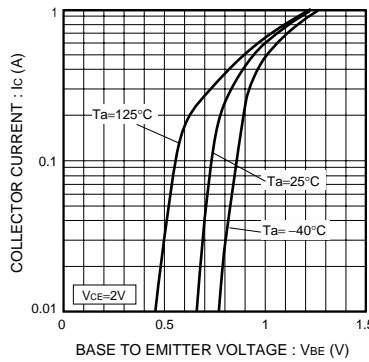


Fig.8 Ground emitter propagat on characteristics

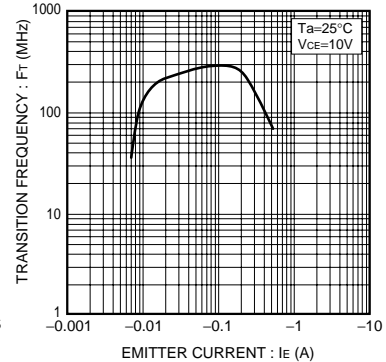


Fig.9 Transition frequency

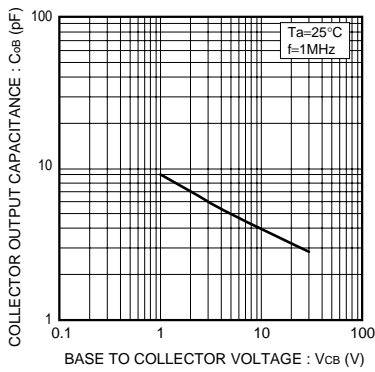
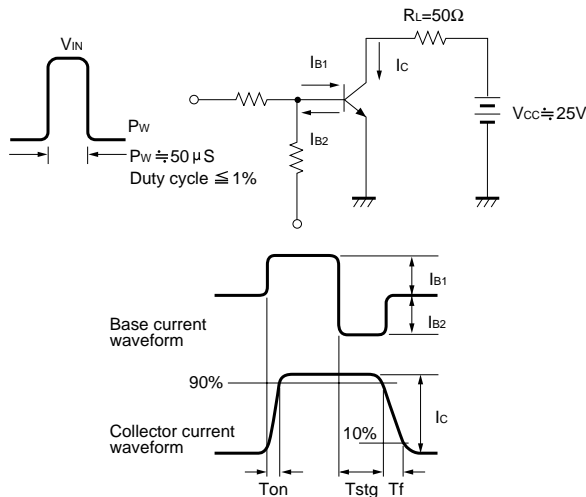


Fig.10 Collector output capacitance

●Switching characteristics measurement circuits





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