

●Electrical characteristics (Ta = 25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Collector-base breakdown voltage	BV_{CBO}	-50	—	—	V	$I_C = -50\text{ }\mu\text{A}$
Collector-emitter breakdown voltage	BV_{CEO}	-40	—	—	V	$I_C = -1\text{mA}$
Emitter-base breakdown voltage	BV_{EBO}	-5	—	—	V	$I_E = -50\text{ }\mu\text{A}$
Collector cutoff current	I_{CBO}	—	—	-0.5	μA	$V_{CB} = -50\text{V}$
Emitter cutoff current	I_{EBO}	—	—	-0.5	μA	$V_{EB} = -4\text{V}$
Collector-emitter saturation voltage	$V_{CE(sat)}$	—	—	-0.3	V	$I_C/I_B = -50\text{mA}/-2.5\text{mA}$
DC current transfer ratio	h_{FE}	100	250	600	—	$V_{CE} = -5\text{V}$, $I_C = -50\text{mA}$
Input resistance	R_i	1.54	2.2	2.86	k Ω	
Transition frequency	f_T	—	200	—	MHz	$V_{CE} = -10\text{V}$, $I_E = 50\text{mA}$, $f = 100\text{MHz}$ *

* Transition frequency of the device

●Packaging specifications

Part No.	Package	SMT3
	Packaging type	Taping
	Code	T146
	Basic ordering unit (pieces)	3000
DTB123TK		

●Electrical characteristic curves

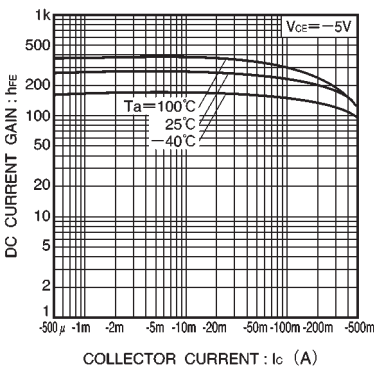


Fig.1 DC current gain vs. collector current

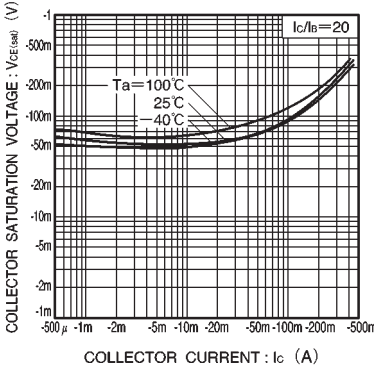


Fig.2 Collector-emitter saturation voltage vs. collector current

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