

DTA114TM / DTA114TE / DTA114TUA DTA114TKA / DTA114TSA

Transistors

●Absolute maximum ratings (Ta=25°C)

Parameter	Symbol	Limits(DTA114T□)					Unit
		M	E	UA	KA	SA	
Collector-base voltage	V _{CB0}	-50					V
Collector-emitter voltage	V _{CE0}	-50					V
Emitter-base voltage	V _{EB0}	-5					V
Collector current	I _c	-100					mA
Collector power dissipation	P _c	150		200		300	mW
Junction temperature	T _j	150					°C
Storage temperature	T _{stg}	-55~+150					°C

●Electrical characteristics (Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Collector-base breakdown voltage	BV _{CB0}	-50	-	-	V	I _c =-50μA
Collector-emitter breakdown voltage	BV _{CE0}	-50	-	-	V	I _c =-1mA
Emitter-base breakdown voltage	BV _{EB0}	-5	-	-	V	I _E =-50μA
Collector cutoff current	I _{CB0}	-	-	-0.5	μA	V _{CB} =-50V
Emitter cutoff current	I _{EB0}	-	-	-0.5	μA	V _{EB} =-4V
Collector-emitter saturation voltage	V _{CE(sat)}	-	-	-0.3	V	I _c /I _B =-10mA/-1mA
DC current transfer ratio	h _{FE}	100	250	600	-	V _{CE} =-5V, I _c =-1mA
Input resistance	R _i	7	10	13	kΩ	-
Transition frequency	f _T	-	250	-	MHz	V _{CE} =-10V, I _E =5mA, f=100MHz *

* Transition frequency of the device

●Packaging specifications

Type	Package	VMT3	EMT3	UMT3	SMT3	SPT
	Package type	Taping	Taping	Taping	Taping	Taping
	Code	T2L	TL	T106	T146	TP
	Basic ordering unit (pieces)	8000	3000	3000	3000	5000
DTA114TM		○	-	-	-	-
DTA114TE		-	○	-	-	-
DTA114TUA		-	-	○	-	-
DTA114TKA		-	-	-	○	-
DTA114TSA		-	-	-	-	○

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●Electrical characteristic curves

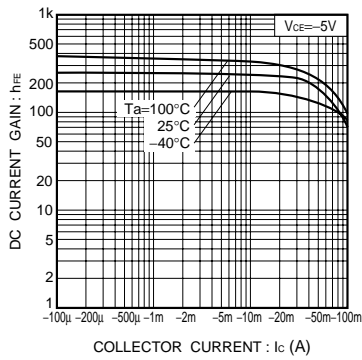


Fig.1 DC current gain vs. collector current

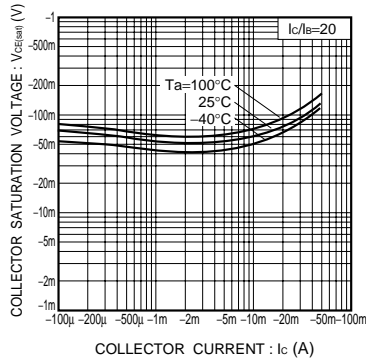


Fig.2 Collector-emitter saturation voltage vs. collector current