

Transistors

NPN small signal transistor

SSTA13

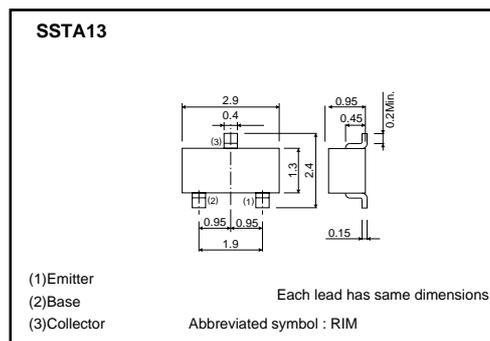
●Features

- 1) High Current Gain.

●Packaging specifications

Type	Package	Taping
	Code	T116
	Basic ordering unit (pieces)	3000
SSTA13		○

●Dimensions (Unit : mm)



●Absolute maximum ratings (Ta=25°C)

Parameter	Symbol	Limits	Unit
Collector-base voltage	V _{CB0}	30	V
Collector-emitter voltage	V _{CES}	30	V
Emitter-base voltage	V _{EBO}	10	V
Collector current	I _c	0.3	A
Collector power dissipation	P _c	0.2	W
Junction temperature	T _j	150	°C
Storage temperature	T _{stg}	-55 to 125	°C

●Electrical characteristics (Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Collector-emitter breakdown voltage	BV _{CES}	30	-	-	V	I _c = 100μA
Collector-emitter breakdown voltage	BV _{CEO}	30	-	-	V	I _c = 10μA
Emitter-base breakdown voltage	BV _{EBO}	10	-	-	V	I _E = 10μA
Collector-base cutoff current	I _{CBO}	-	-	0.1	μA	V _{CB} = 30V
Emitter-base cutoff current	I _{EBO}	-	-	0.1	μA	V _{EB} = 10V
Collector-emitter saturation voltage	V _{CE(sat)}	-	-	1.5	V	I _c /I _B = 100mA/ 0.1mA
Base-emitter voltage	V _{BE(on)}	-	-	2.0	V	V _{CE} = 5V, I _c = 100mA *
DC current transfer ratio	h _{FE}	5000	-	-	-	V _{CE} = 5V, I _c = 10mA
		10000	-	-		V _{CE} = 5V, I _c = 100mA *
Transition frequency	f _T	125	-	-	MHz	V _{CE} = 5V, I _E = 10mA, f=100MHz
Collector output capacitance	C _{ob}	-	5.4	-	pF	V _{CB} = 10V, f=100kHz, I _E =0

* Pulsed

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