# NPN small signal transistor **SSTA13**

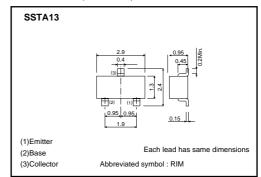
# ● Features

1) High Current Gain.

# Packaging specifications

Туре	Package	Taping
	Code	T116
	Basic ordering unit (pieces)	3000
SSTA13		0

# ●Dimensions (Unit: mm)



# ● Absolute maximum ratings (Ta=25°C)

Parameter	Symbol	Limits	Unit
Collector-base voltage	Vсво	30	V
Collector-emitter voltage	Vces	30	V
Emitter-base voltage	Vево	10	V
Collector current	lc	0.3	Α
Collector power dissipation	Pc	0.2	W
Junction temperature	Tj	150	°C
Storage temperature	Tstg	-55 to 125	°C

# ●Electrical characteristics (Ta=25°C)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Collector-emitter breakdown voltage	BVces	30	_	_	V	Ic= 100μA
Collector-emitter breakdown voltage	BVceo	30	_	_	V	Ic= 10μA
Emitter-base breakdown voltage	ВУЕВО	10	_	_	V	Iε= 10μA
Collector-base cutoff current	Ісво	_	_	0.1	μΑ	Vcb= 30V
Emitter-base cutoff current	Ієво	-	_	0.1	μΑ	V <sub>EB</sub> = 10V
Collector-emitter saturation voltage	VCE(sat)	-	-	1.5	V	Ic/I <sub>B</sub> = 100mA/ 0.1mA
Base-emitter voltage	VBE(on)	-	_	2.0	V	VcE= 5V, Ic= 100mA *
DC autrent transfer ratio	hfe	5000	-	_	_	Vce= 5V, Ic= 10mA
DC current transfer ratio		10000	_	_		VcE= 5V, Ic= 100mA *
Transition frequency	f⊤	125	-	_	MHz	Vce= 5V, Ie= 10mA, f=100MHz
Collector output capacitance	Cob	-	5.4	_	pF	Vcв= 10V, f=100kHz, IE=0

<sup>\*</sup> Pulsed

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