NPN small signal transistor

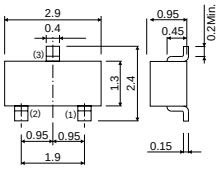
SSTA13

●**Features**

1) High Current Gain.

●**Dimensions** (Unit : mm)

SSTA13



(1)Emitter
(2)Base
(3)Collector

Each lead has same dimensions

Abbreviated symbol : RIM

●**Packaging specifications**

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

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

Parameter	Symbol	Limits	Unit
Collector-base voltage	V_{CBO}	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	Tj	150	°C
Storage temperature	Tstg	−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	Cob	–	5.4	–	pF	V_{CB}= 10V, f=100kHz, I_E=0

＊ Pulsed

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