Unit in mm

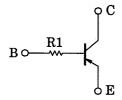
TOSHIBA Transistor Silicon PNP Epitaxial Type (PCT Process)

RN2112F,RN2113F

Switching, Inverter Circuit, Interface Circuit And Driver Circuit Applications

- With built-in bias resistors
- Simplify circuit design
- Reduce a quantity of parts and manufacturing process
- Complementary to RN1112F, RN1113F

Equivalent Circuit



Maximum Ratings (Ta = 25°C)

Characteristic	Symbol	Rating	Unit
Collector-base voltage	V_{CBO}	-50	V
Collector-emitter voltage	V _{CEO}	-50	V
Emitter-base voltage	V _{EBO}	-5	V
Collector current	Ic	-100	mA
Collector power dissipation	PC	100	mW
Junction temperature	Tj	150	°C
Storage temperature range	T _{stg}	-55~150	°C

1. BASE
2. EMITTER
3. COLLECTOR

2-2HA1A

Weight: 2.3 mg

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Electrical Characteristics (Ta = 25°C)

Characteristic		Symbol	Test Circuit	Test Condition	Min	Тур.	Max	Unit
Collector cut-off current		I _{CBO}	_	$V_{CB} = -50V$, $I_E = 0$	_	_	-100	nA
Emitter cut-off current		I _{EBO}	_	$V_{EB} = -5V, I_C = 0$	_	_	-100	nA
DC current gain		h _{FE}	_	$V_{CE} = -5V, I_{C} = -1mA$	120	_	400	_
Collector-emitter saturation voltage		V _{CE} (sat)	_	$I_C = -5mA$, $I_B = -0.25mA$	_	-0.1	-0.3	V
Transition frequency		f _T	_	V _{CE} = −10V, I _C = −5mA	_	200	_	MHz
Collector output capacitance		C _{ob}	_	V _{CB} = −10V, I _E = 0, f = 1MHz	_	3	6	pF
Input resistor	RN2112F	- R1	_	_	15.4	22	28.6	kΩ
	RN2113F				32.9	47	61.1	

