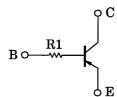
TOSHIBA Transistor Silicon PNP Epitaxial Type (PCT Process)

RN2112,RN2113

Switching, Inverter Circuit, Interface Circuit and Driver Circuit Applications

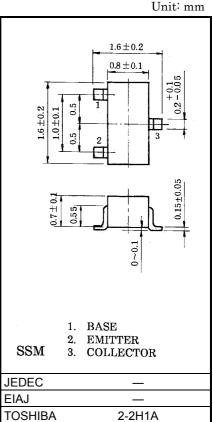
- With built-in bias resistors •
- Simplify circuit design
- Reduce a quantity of parts and manufacturing process •
- Complementary to RN1112, RN1113

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	۱ _C	-100	mA
Collector power dissipation	PC	100	mW
Junction temperature	Tj	150	°C
Storage temperature range	T _{stg}	-55~150	°C

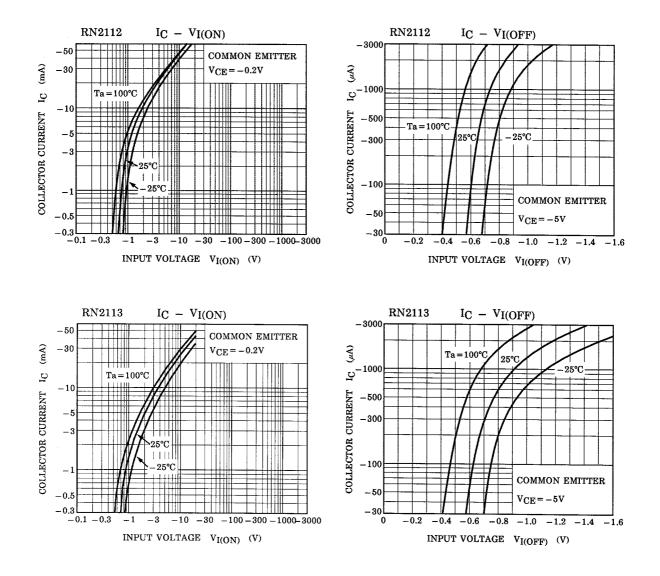


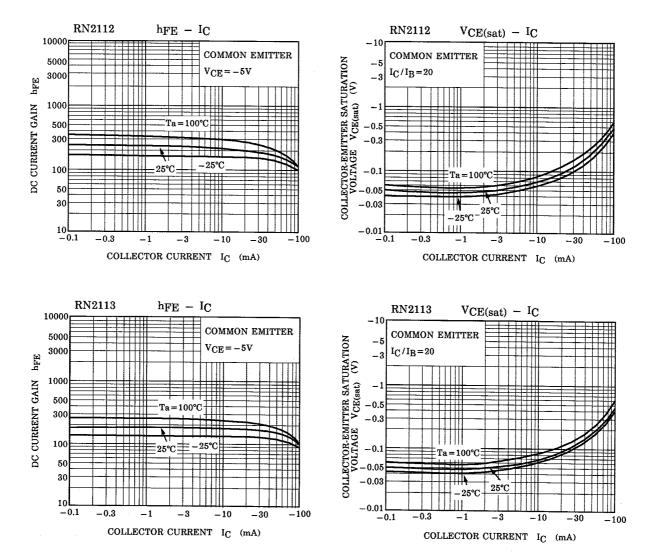
Weight: 2.4mg

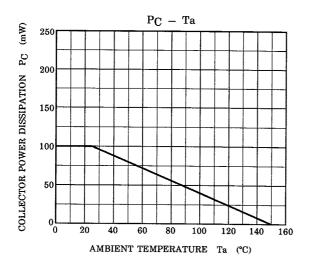
Electrical Characteristics (Ta = 25°C)

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	RN2112	R1	_	_	15.4	22	28.6	kΩ
	RN2113				32.9	47	61.1	

Unit: mm







Type Name	Marking
RN2112	Type Name Y N
RN2113	Type Name Y P

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