Unit: mm

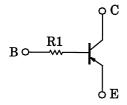
TOSHIBA Transistor Silicon PNP Epitaxial Type (PCT Process)

RN2110,RN2111

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 RN1110, RN1111

Equivalent Circuit



Maximum Ratings (Ta = 25°C)

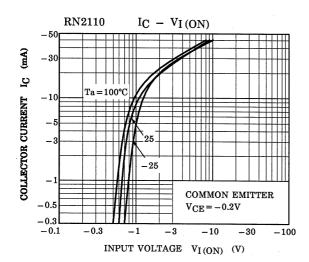
Characteristic	Symbol	Rating	Unit
Collector-base voltage	V_{CBO}	-50	V
Collector-emitter voltage	V _{CEO}	-50	V
Emitter-base voltage	V _{EBO}	- 5	V
Collector current	IC	-100	mA
Collector power dissipation	PC	100	mW
Junction temperature	Tj	150	°C
Storage temperature range	T _{stg}	-55~150	°C

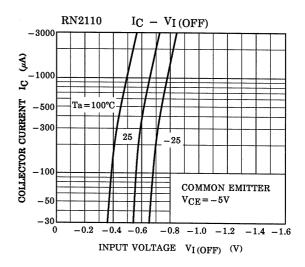
1. BASE 2. EMITTER 3. COLLECTOR JEDEC — EIAJ — TOSHIBA 2-2H1A

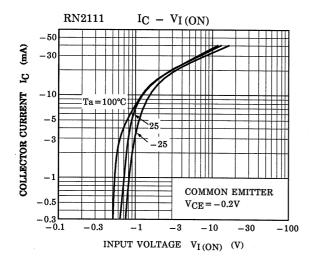
Weight: 2.4mg

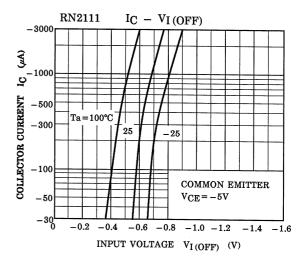
Electrical Characteristics (Ta = 25°C)

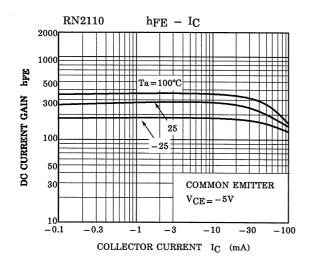
Characteristic		Symbol	Test Circuit	Test Condition	Min	Тур.	Max	Unit
Collector cut-off current		I _{CBO}	_	V _{CB} = -50V, I _E = 0	_	_	-100	nA
Emitter cut-off current		I _{EBO}	_	$V_{EB} = -5V, I_C = 0$	_	_	-100	nA
DC current gain		h _{FE}	_	V _{CE} = −5V, I _C = −1mA	120	_	400	_
Collector-emitter saturation 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	_	MH_{Z}
Collector output capacitance		C _{ob}	_	$V_{CB} = -10V$, $I_E = 0$, $f = 1MH_Z$	_	3	6	pF
Input resistor	RN2110	- R1	_	_	3.29	4.7	6.11	kΩ
	RN2111				7	10	13	

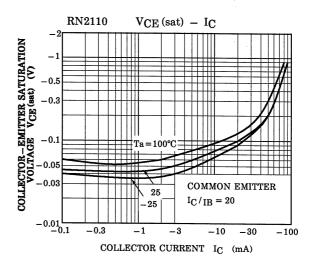


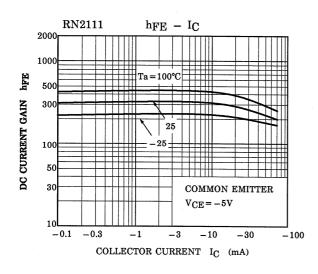


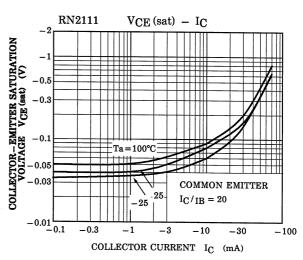












Type Name	Marking	
RN2110	Type Name Y K	
RN2111	Type Name Y M H H	

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RESTRICTIONS ON PRODUCT USE

000707EAA

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