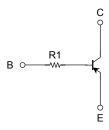
TOSHIBA Transistor Silicon PNP Epitaxial Type (PCT Process) (Bias Resistor Built-in Transistor)

RN2910FE,RN2911FE

Switching, Inverter Circuit, Interface Circuit and Driver Circuit Applications

- Two devices are incorporated into an Extreme-Super-Mini (6-pin) package.
- Incorporating a bias resistor into a transistor reduces parts count.
- Reducing the parts count enables the manufacture of ever more compact equipment and lowers assembly cost.
- Complementary to RN1910FE, RN1911FE

Equivalent Circuit and Bias Resistor Values

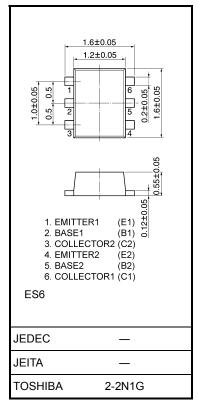


Maximum Ratings (Ta = 25°C) (Q1, Q2 common)

Characteristics	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	P _C (Note)	100	mW
Junction temperature	Tj	150	°C
Storage temperature range	T _{stg}	-55~150	°C

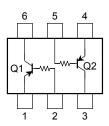
Note: Total rating

Unit: mm



Weight: 0.003g (typ.)

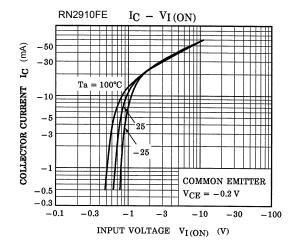
Equivalent Circuit (top view)

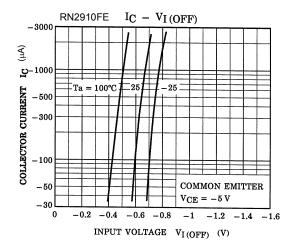


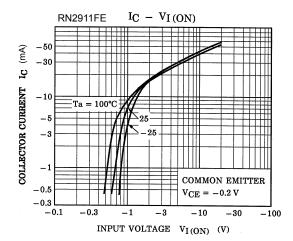


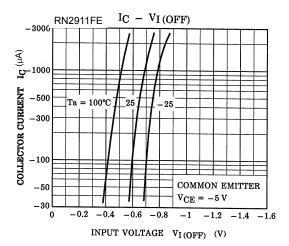
Electrical Characteristics (Ta = 25°C) (Q1, Q2 common)

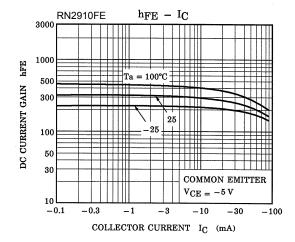
Characteristics		Symbol	Test Condition	Min	Тур.	Max	Unit
Collector cut-off current		I _{CBO}	$V_{CB} = -50 \text{ V}, I_E = 0$	_	_	-100	nA
Emitter cut-off curren	t	I _{EBO}	$V_{EB} = -5 \text{ V}, I_C = 0$	_	_	-100	nA
DC current gain		h _{FE}	$V_{CE} = -5 \text{ V}, I_{C} = -1 \text{ mA}$	120	_	400	
Collector-emitter saturation voltage		V _{CE (sat)}	$I_C = -5 \text{ mA}, I_B = -0.25 \text{ mA}$	_	-0.1	-0.3	V
Transition frequency		f _T	$V_{CE} = -10 \text{ V}, I_{C} = -5 \text{ mA}$	_	200	_	MHz
Collector output capacitance		C _{ob}	V _{CB} = -10 V, I _E = 0, f = 1 MHz	_	3	6	pF
Input resistor	RN2910FE	R1	_	3.29	4.7	6.11	kΩ
	RN2911FE			7	10	13	

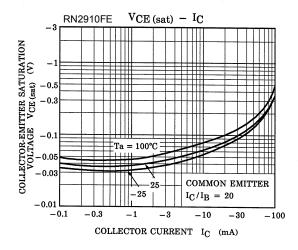


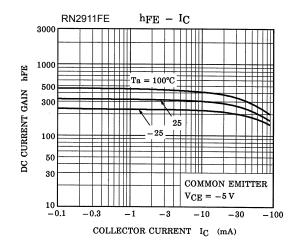


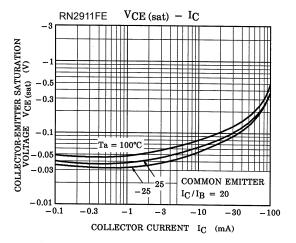


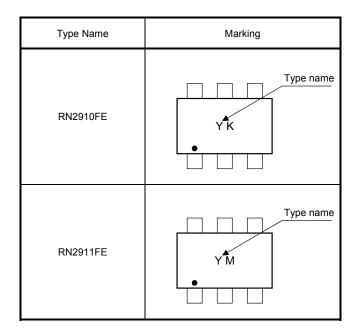












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