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TOSHIBA Transistor Silicon PNP Epitaxial Type (PCT Process)

RN2601, RN2602, RN2603 RN2604, RN2605, RN2606

Switching, Inverter Circuit, Interface Circuit And Driver Circuit Applications

- Including two devices in SM6 (super mini type with 6 leads) •
- With built-in bias resistors
- Simplify circuit design
- Reduce a quantity of parts and manufacturing process
- Complementary to RN1601~1606 •

Equivalent Circuit and Bias Resistor Values



Type No.	R1 (kΩ)	R2 (kΩ)
RN2601	4.7	4.7
RN2602	10	10
RN2603	22	22
RN2604	47	47
RN2605	2.2	47
RN2606	4.7	47



Equivalent Circuit (Top View)

Maximum Ratings (Ta = 25°C) (Q1, Q2 Common)					
Characteris	Characteristic			Unit	
Collector-base voltage	PN2601~2606	V _{CBO}	-50	V	
Collector-emitter voltage	KN2001-2000	V _{CEO}	-50	V	
Emitter base voltage	RN2601~2604	Vene	-10	V	
Emilier-base voltage	RN2605, 2606	▲EBO	-5	v	
Collector current		۱ _C	-100	mA	
Collector power dissipation	RN2601~2606	P _C *	300	mW	
Junction temperature		Тј	150	°C	
Storage temperature range		T _{stg}	-55~150	°C	



* Total rating

Unit in mm

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

Characteris	Symbol	Test Circuit	Test Condition	Min	Тур.	Max	Unit	
Collector out off current	RN2601~2606	I _{CBO}	_	$V_{CB} = -50V, I_E = 0$	_	_	-100	n۸
		ICEO	_	$V_{CE} = -50V, I_B = 0$	_	_	-500	ПА
	RN2601	I _{EBO}	_	V _{EB} = -10V, I _C = 0	-0.82	_	-1.52	mA
	RN2602		_		-0.38	_	-0.71	
Freitten aut aff aumant	RN2603		_		-0.17	_	-0.33	
Emitter cut-on current	RN2604		_		-0.082	_	-0.15	
	RN2605		_	V _{EB} = -5V, I _C = 0	-0.078	_	-0.145	
	RN2606		_		-0.074	_	-0.138	
	RN2601		—	V _{CE} = -5V I _C = -10mA	30	_	_	- - -
	RN2602		_		50	_	_	
	RN2603	h _{FE}	_		70	_	_	
DC current gain	RN2604		_		80	_	_	
	RN2605		_		80	_	_	
	RN2606		_	-	80	_	_	
Collector-emitter saturation voltage	RN2601~2606	V _{CE (sat)}	_	I _C = −5mA I _B = −0.25mA	—	-0.1	-0.3	V
	RN2601	V _{I (ON)}	_	V _{CE} = -0.2V I _C = -5mA	-1.1	_	-2.0	V
	RN2602		_		-1.2	_	-2.4	
	RN2603		_		-1.3	_	-3.0	
Input voltage (ON)	RN2604		_		-1.5	_	-5.0	
	RN2605		_		-0.6	_	-1.1	
	RN2606		_		-0.7	_	-1.3	
	RN2601~2604	VI (OFF)	_	V _{CE} = −5V, I _C = −0.1mA	-1.0	_	-1.5	v
Input voltage (OFF)	RN2605, 2606		_		-0.5	_	-0.8	
Translation frequency	RN2601~2606	f _T	_	V _{CE} = -10V, I _C = -5mA	_	200	_	MHz
Collector output capacitance	RN2601~2606	C _{ob}	_	V _{CB} = -10V, I _E = 0 f = 1MHz	_	3	6	pF
	RN2601	R1	—	_	3.29	4.7	6.11	1 3 6 1 86 1
	RN2602		_		7	10	13	
land an eight a	RN2603		_		15.4	22	28.6	
input resistor	RN2604		_		32.9	47	61.1	
	RN2605		_		1.54	2.2	2.86	
	RN2606		_		3.29	4.7	6.11	
	RN2601~2604	R1/R2	_	_	0.9	1.0	1.1	_
Resistor ratio	RN2605		_		0.0421	0.0468	0.0515	
	RN2606		_		0.09	0.1	0.11	

(Q1, Q2 Common)



(Q1, Q2 Common)



(Q1, Q2 Common)



TOSHIBA

Type Name	Marking
RN2601	Type Name
RN2602	Type Name Y B
RN2603	Type Name YC HHH
RN2604	Type Name Y D HEE
RN2605	Type Name Y E
RN2606	Type Name YF

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