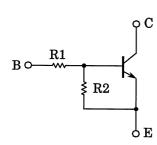
TOSHIBA Transistor Silicon PNP Epitaxial Type (PCT Process)

RN2601, RN2602, RN2603 RN2604, RN2605, RN2606

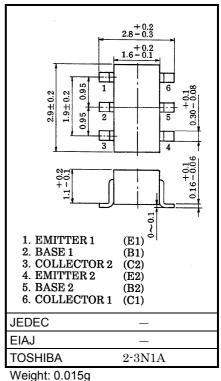
Switching, Inverter Circuit, Interface Circuit And Driver Circuit Applications

- 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

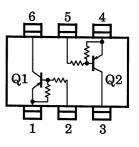


Type No.	R1 (kΩ)	R2 (kΩ)		
RN2601	4.7	4.7		
RN2602	10	10		
RN2603	22	22		
RN2604	47	47		
RN2605	2.2	47		
RN2606	4.7	47		



Equivalent Circuit (Top View)

aximum Ratings (Ta	= 25°C) (Q1, Q	2 Commor	ו)		
Characteristi	Symbol	Rating	Unit		
Collector-base voltage	RN2601~2606	V _{CBO}	-50	V	
Collector-emitter voltage	RN2001-2000	V _{CEO}	-50	V	
Emitter-base voltage	RN2601~2604	V _{FBO}	-10	V	
Liniter-base voltage	RN2605, 2606	▲EBO	-5		
Collector current		Ι _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	



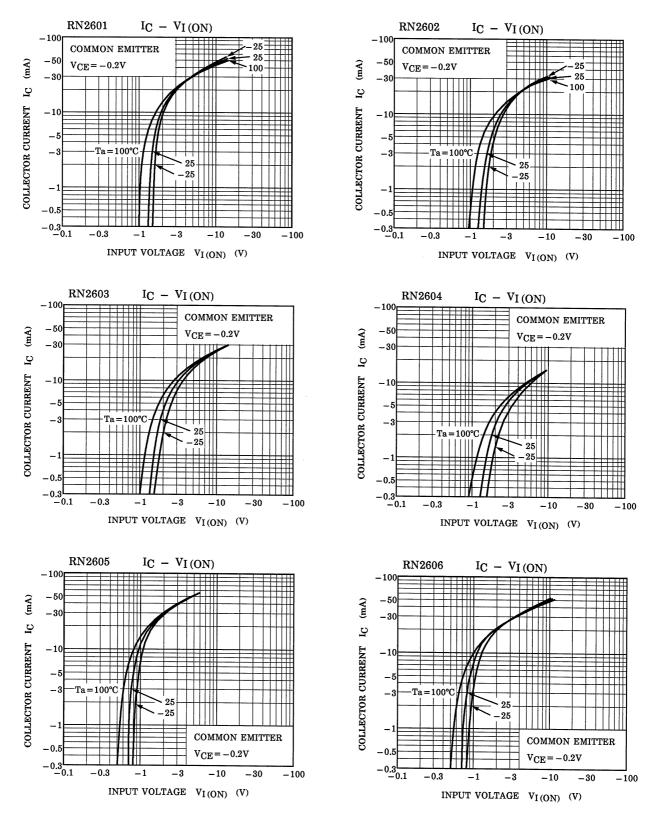
* Total rating

Unit in mm

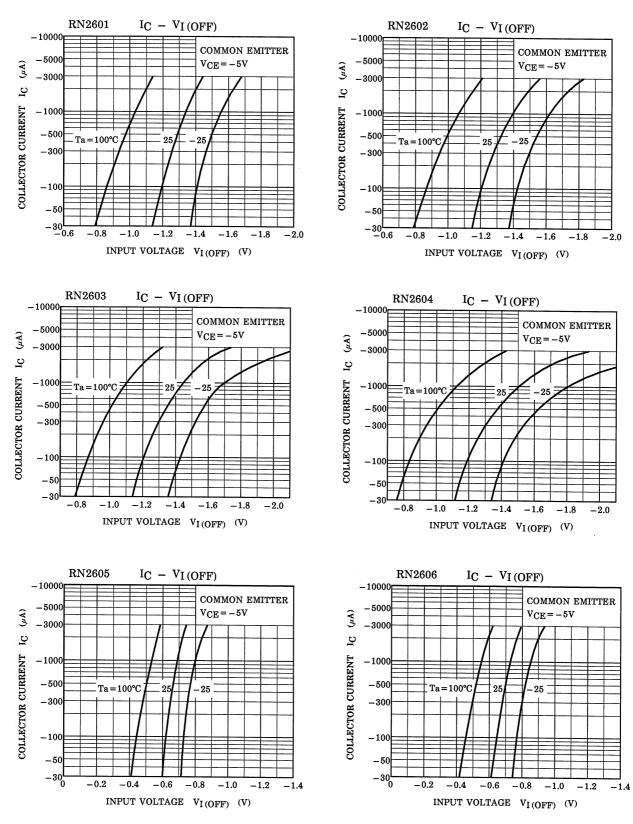
Electrical Characteristics (Ta = 25°C) (Q1, Q2 common)

Characteristic		Symbol	Test Circuit	Test Condition	Min	Тур.	Max	Unit
Collector cut-off current	RN2601~2606	I _{CBO}	_	$V_{CB} = -50V, I_E = 0$	_	—	-100	nA
	KN2001*2000	ICEO	—	$V_{CE} = -50V, I_B = 0$	_	_	-500	
	RN2601	IEBO	_	V _{EB} = -10V, I _C = 0	-0.82	_	-1.52	mA
	RN2602		_		-0.38	_	-0.71	
Emitter out off ourrent	RN2603		_		-0.17	_	-0.33	
Emitter cut-off 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	_	_	
DC aureat asia	RN2603	b	_		70	_	_	
DC current gain	RN2604	hFE	_		80	_	_	
	RN2605		_		80	—	—	
	RN2606		_	-	80	_	—	
Collector-emitter saturation voltage	RN2601~2606	V _{CE (sat)}	_	$I_{\rm C} = -5mA$ $I_{\rm B} = -0.25mA$	_	-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	V _{I (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	_	7 15.4 32.9	3.29	4.7	6.11	kΩ
	RN2602		_		7	10	13	
	RN2603		_		15.4	22	28.6	
Input resistor	RN2604				32.9	47	61.1	
	RN2605		_		2.2	2.86		
	RN2606		_		3.29	4.7	6.11	
	RN2601~2604		- 1		0.9	1.0	1.1	_
Resistor ratio	RN2605	R1/R2	—		0.0421	0.0468	0.0515	
	RN2606		_		0.09	0.1	0.11	

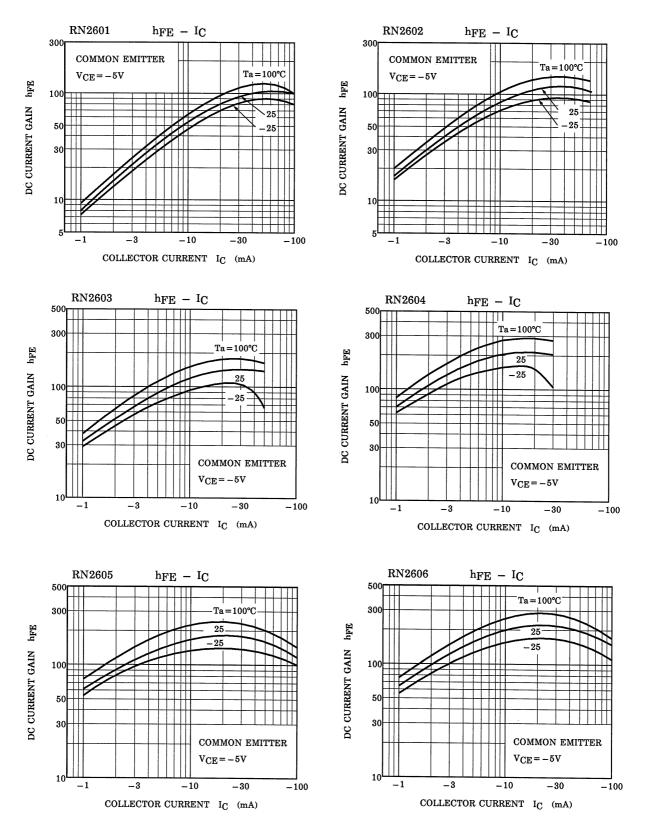
(Q1, Q2 Common)



(Q1, Q2 Common)



(Q1, Q2 Common)



TOSHIBA

Type Name	Marking	
RN2601	Type Name Y A	
RN2602	Type Name Y B THE	
RN2603	Type Name PPA Y C THE	
RN2604	Type Name Y D Type Name	
RN2605	Type Name Y E HHHH	
RN2606	Type Name	

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