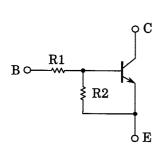
TOSHIBA Transistor Silicon PNP Epitaxial Type (PCT Process)

RN2601,RN2602,RN2603 RN2604,RN2605,RN2606

Switching, Inverter Circuit, Interface Circuit And Driver Circuit Applications

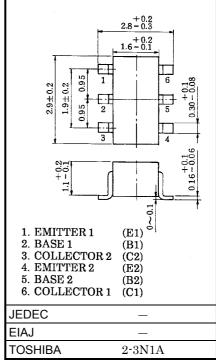
- Including two devices in SM6 (super mini type with 6 leads)
- With built-in bias resistors
- Simplify circuit design
- Reduce a quantity of parts and manufacturing process
- Complementary to RN1601~1606

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

Unit in mm

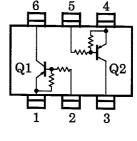


Weight: 0.015g

Equivalent Circuit (Top View)

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

Characteristi	Symbol	Rating	Unit		
Collector-base voltage	RN2601~2606	V_{CBO}	-50	V	
Collector-emitter voltage	KN2001*2000	V _{CEO}	-50	V	
Emitter-base voltage	RN2601~2604	V _{EBO}	-10	V	
	RN2605, 2606	VEBO	-5		
Collector current		I _C	-100	mA	
Collector power dissipation	RN2601~2606	P _C *	300	mW	
Junction temperature	KIN2001~2000	Tj	150	°C	
Storage temperature range		T _{stg}	-55~150	°C	

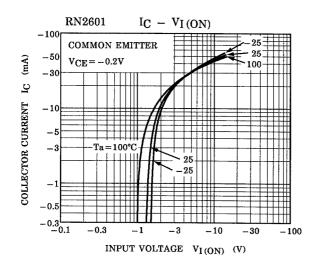


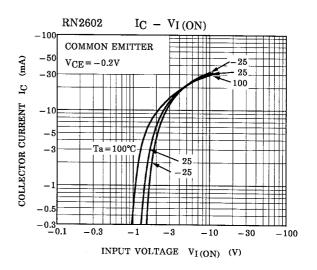
^{*} Total rating

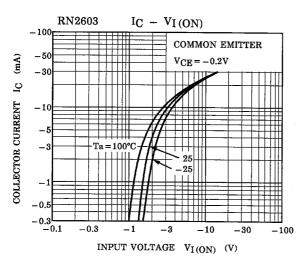
Electrical Characteristics (Ta = 25°C) (Q1, Q2 common)

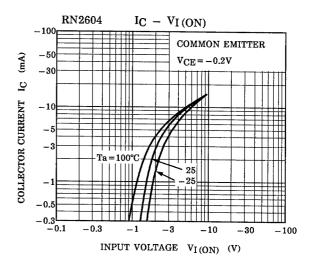
Characteristic		Symbol	Test Circuit	Test Condition	Min	Тур.	Max	Unit
Collector cut-off current	RN2601~2606	I _{CBO}	_	$V_{CB} = -50V, I_{E} = 0$	_	_	-100	nA
		I _{CEO}	_	$V_{CE} = -50V, I_B = 0$	_	_	-500	
Emitter cut-off current	RN2601	- I _{EBO}	_	V _{EB} = −10V, I _C = 0	-0.82	_	-1.52	mA
	RN2602		_		-0.38	_	-0.71	
	RN2603		_		-0.17	_	-0.33	
	RN2604		_		-0.082	_	-0.15	
	RN2605		_	V _{EB} = -5V, I _C = 0	-0.078	_	-0.145	
	RN2606		_		-0.074	_	-0.138	
	RN2601		_		30	_	_	
	RN2602		_		50	_	_	
DO summent main	RN2603	L	_	V _{CE} = −5V	70	_	_	
DC current gain	RN2604	h _{FE}	_	I _C = -10mA	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	٧
Input voltage (ON)	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	
	RN2604		_		-1.5	_	-5.0	
	RN2605		_		-0.6	_	-1.1	
	RN2606		_		-0.7	_	-1.3	
land to the sec (OFF)	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
Input resistor	RN2601	R1	_	_	3.29	4.7	6.11	kΩ
	RN2602		_		7	10	13	
	RN2603		_		15.4	22	28.6	
	RN2604		_		32.9	47	61.1	
	RN2605		_		1.54	2.2	2.86	
	RN2606		_		3.29	4.7	6.11	
Resistor ratio	RN2601~2604	R1/R2	_	_	0.9	1.0	1.1	_
	RN2605		_		0.0421	0.0468	0.0515	
	RN2606		_		0.09	0.1	0.11	

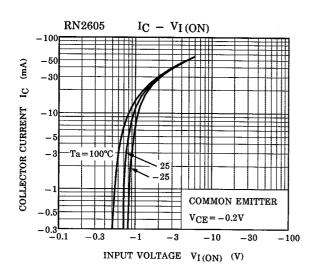
(Q1, Q2 Common)

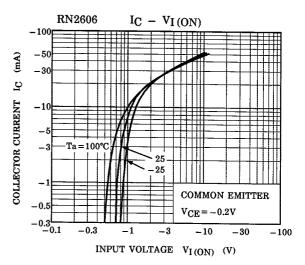






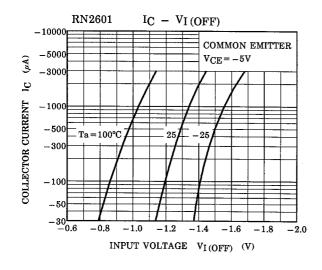


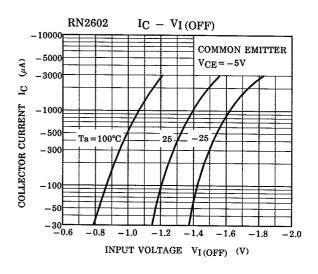


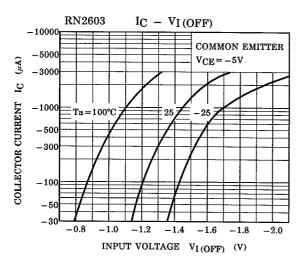


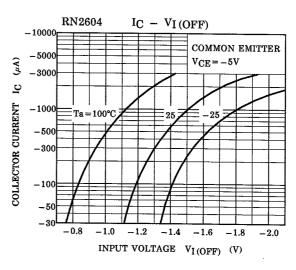
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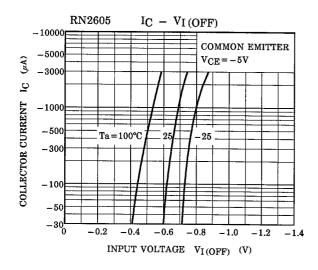
(Q1, Q2 Common)

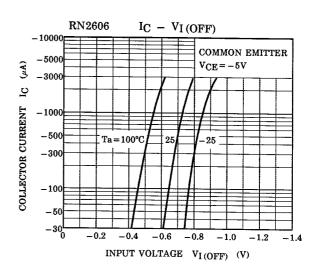




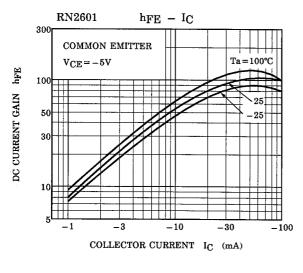


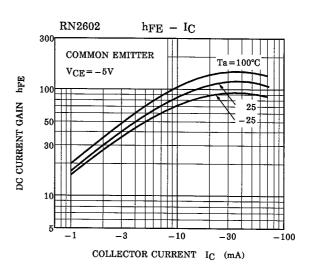


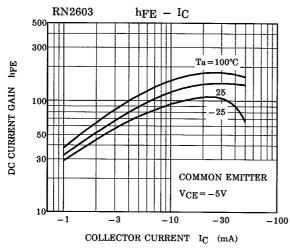


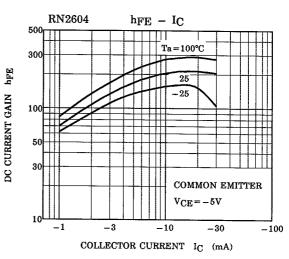


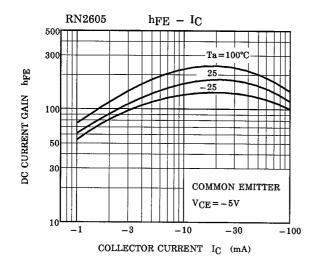
(Q1, Q2 Common)

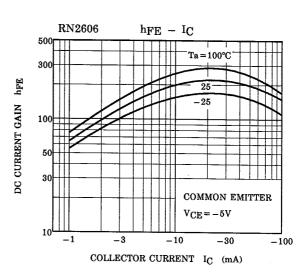












5

Type Name	Marking	
RN2601	Type Name Y A	
RN2602	Type Name Y B	
RN2603	Type Name Y C	
RN2604	Type Name Y D	
RN2605	Type Name YE	
RN2606	Type Name YF	

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000707EAA

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