RN2401,RN2402,RN2403,RN2404,RN2405,RN2406

TOSHIBA Transistor Silicon PNP Epitaxial Type (PCT Process)

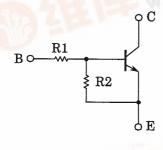
RN2401,RN2402,RN2403 RN2404,RN2405,RN2406

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 RN1401~1406

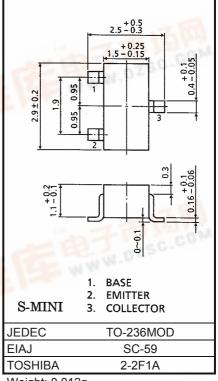
Equivalent Circuit

Bias Resistor Values



Type No.	R1 (kΩ)	R2 (kΩ)
RN2401	4.7	4.7
RN2402	10	10
RN2403	22	22
RN2404	47	47
RN2405	2.2	47
RN2406	4.7	47

Unit: mm



Weight: 0.012g

Maximum Ratings (Ta = 25°C)

Characteristic		Symbol	Rating	Unit	WWW.OZSC.COM
Collector-base voltage	RN2401~2406	V _{CBO}	-50	V	M. As
Collector-emitter voltage	KIN2401*32400	V _{CEO}	-50	V	
Emitter-base voltage	RN2401~2404	V _{EBO}	-10	V	
	RN2405, 2406		-5	V	
Collector current	MAG	Ic	-100	mA	
Collector power dissipation	RN2401~2406	PC	200	mW	- =1
Junction temperature	KN2401*2400	Tj	150	°C	一手杨阳
Storage temperature range		T _{stg}	-55~150	°C	CO.COM
consign temporature range		· sig	199		WWW.DZSC.GO

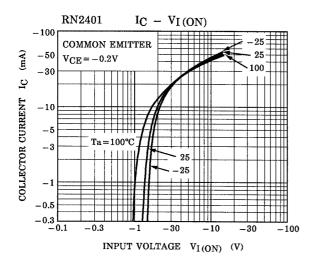


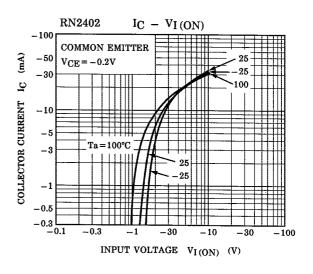
TOSHIBA

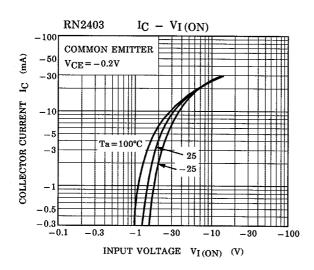
Electrical Characteristics (Ta = 25°C)

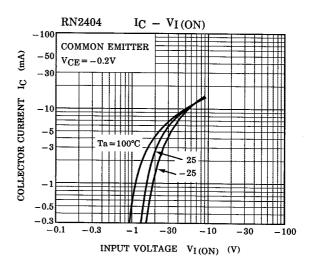
Characteris	tic	Symbol	Test Circuit	Test Condition	Min	Тур.	Max	Unit	
Collector cut-off current	RN2401~2406	I _{CBO}	_	$V_{CB} = -50V, I_{E} = 0$	_		-100	nΛ	
	RN2401~2406	I _{CEO}	_	$V_{CE} = -50V, I_B = 0$	_	_	-500	nA	
	RN2401	I _{EBO}	_	V _{EB} = −10V, I _C = 0	-0.82	_	-1.52	mA	
	RN2402		_		-0.38	_	-0.71		
	RN2403		_		-0.17	_	-0.33		
Emitter cut-off current	RN2404		_		-0.082	_	-0.15		
	RN2405		_	V _{EB} = −5V, I _C = 0	-0.078	_	-0.145		
	RN2406		_		-0.074	_	-0.138		
	RN2401		_		30	_	_		
	RN2402		_		50	_	_		
DO summent main	RN2403	L.	_	V _{CE} = −5V	70	_	_		
DC current gain	RN2404	h _{FE}	_	I _C = -10mA	80	_	_	_	
	RN2405		_		80	_	_		
	RN2406		_		80	_	_		
Collector-emitter saturation voltage	RN2401~2406	V _{CE (sat)}	_	$I_{C} = -5mA$ $I_{B} = -0.25mA$	_	-0.1	-0.3	٧	
	RN2401		_	V _{CE} = -0.2V I _C = -5mA	-1.1	_	-2.0	V	
Input voltage (ON)	RN2402		_		-1.2	_	-2.4		
	RN2403	Vi (on)	_		-1.3	_	-3.0		
	RN2404		_		-1.5	_	-5.0		
	RN2405		_		-0.6	_	-1.1		
	RN2406		_		-0.7	_	-1.3		
land to the sec (OFF)	RN2401~2404	V _{I (OFF)}	_	V _{CE} = -5V, I _C = -0.1mA	-1.0	_	-1.5	٧	
Input voltage (OFF)	RN2405, 2406		_		-0.5	_	-0.8		
Translation frequency	RN2401~2406	f _T	_	$V_{CE} = -10V$, $I_{C} = -5mA$	_	200	_	MHz	
Collector output capacitance	RN2401~2406	C _{ob}	_	V _{CB} = -10V, I _E = 0 f = 1MHz	_	3	6	pF	
Input resistor	RN2401	R1	_		3.29	4.7	6.11	kΩ	
	RN2402		_		7	10	13		
	RN2403		_		15.4	22	28.6		
	RN2404		_		32.9	47	61.1		
	RN2405		_		1.54	2.2	2.86		
	RN2406		_		3.29	4.7	6.11		
Resistor ratio	RN2401~2404	R1/R2	_		0.9	1.0	1.1	_	
	RN2405		_		0.0421	0.0468	0.0515		
	RN2406		_		0.09	0.1	0.11		

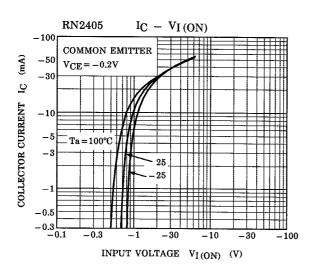
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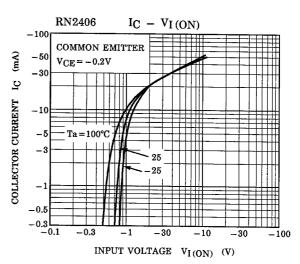


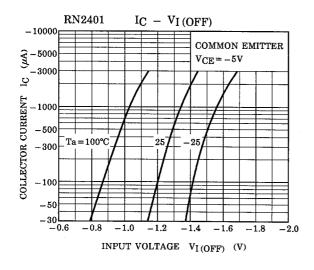


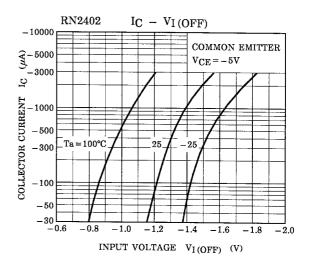


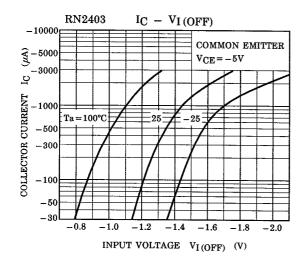


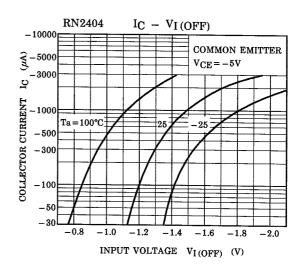


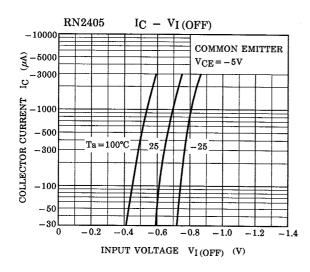


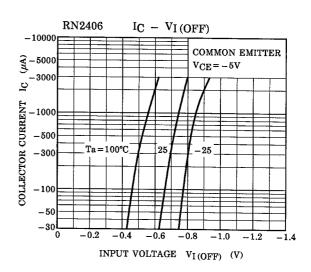




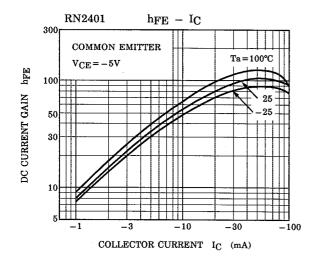


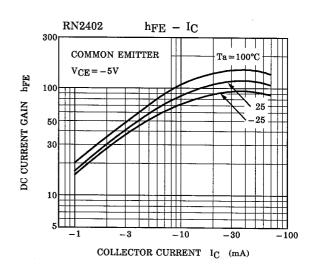


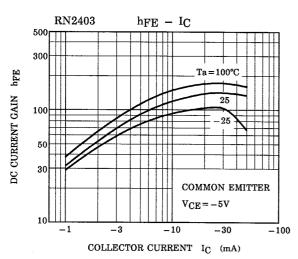


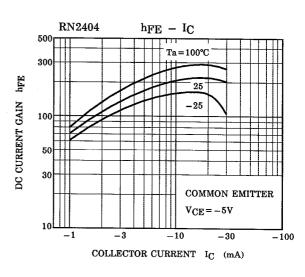


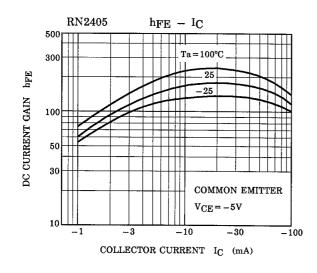
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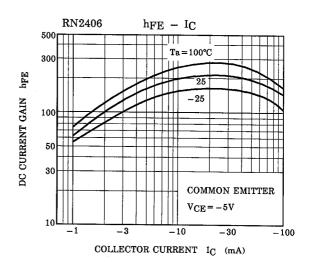












5

Type Name	Marking
RN2401	Type Name YA
RN2402	Type Name Y B
RN2403	Type Name Y C
RN2404	Type Name Y D
RN2405	Type Name YE
RN2406	Type Name Y F

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000707EAA

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