Unit: mm

TOSHIBA Transistor Silicon PNP Epitaxial Type (PCT Process)

HN2A26FS

Frequency General-Purpose Amplifier Applications

• Two devices are incorporated into a fine-pitch, Small-Mold (6-pin) package.

High voltage: V_{CEO} = −50 V

• High current: I_C = -100 mA (max)

• High hFE: hFE = 120 to 400

• Excellent hFE linearity

: hfe (IC = -0.1 mA)/hfe (IC = -2 mA) = 0.95 (typ.)

• Lead (Pb) - free

Maximum Ratings (Ta = 25°C)

Characteristic	Symbol	Rating	Unit	
Collector-base voltage	V_{CBO}	-50	V	
Collector-emitter voltage	V_{CEO}	-50	V	
Emitter-base voltage	V_{EBO}	-5	٧	
Collector current	I _C	-100	mA	
Base current	ΙΒ	-30	mW	
Collector power dissipation	P _C (Note)	50	mW	
Junction temperature	Tj	150	°C	
Storage temperature range	T _{stg}	−55 ~ 150	°C	

Note: Total rating.

1.0±0.05 0<u>.1</u>±0.05 0.8±0.05 0.1±0.05 0.15 ± 0.05 0.7±0.05 0.1 ± 0.05 1. EMITTER1 (E1) 2. EMITTER2 (E2) 3. BASE2 (B2) 4. COLLECTOR2 (C2)fS6 5. BASE1 6. COLLECTOR1 **JEDEC JEITA TOSHIBA** 2-1F1C

Weight: 0.001 g (typ.)

Electrical Characteristics (Ta = 25°C)

Characteristic	Symbol	Test Condition	Min	Тур.	Max	Unit
Collector cutoff current	I _{CBO}	$V_{CB} = -50 \text{ V}, I_E = 0$	_	_	-0.1	μА
Emitter cutoff current	I _{EBO}	$V_{EB} = -5 \text{ V}, I_C = 0$	_	_	-0.1	μА
DC current gain	h _{FE} (Note)	$V_{CE} = -6 \text{ V}, I_{C} = -2 \text{ mA}$	120	_	400	
Collector-emitter saturation voltage	V _{CE (sat)}	$I_C = -100 \text{ mA}, I_B = -10 \text{ mA}$	_	-0.18	-0.3	V
Transition frequency	f _T	$V_{CE} = -10 \text{ V}, I_{C} = -1 \text{ mA}$	80	_	_	MHz
Collector output capacitance	C _{ob}	$V_{CB} = -10 \text{ V}, I_E = 0, f = 1 \text{ MHz}$	_	1.6	_	pF

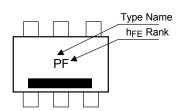
Note: hFE Classification

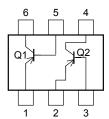
Y (F): 120 ~ 140, GR (H): 200 ~ 400

() Marking symbol

Marking

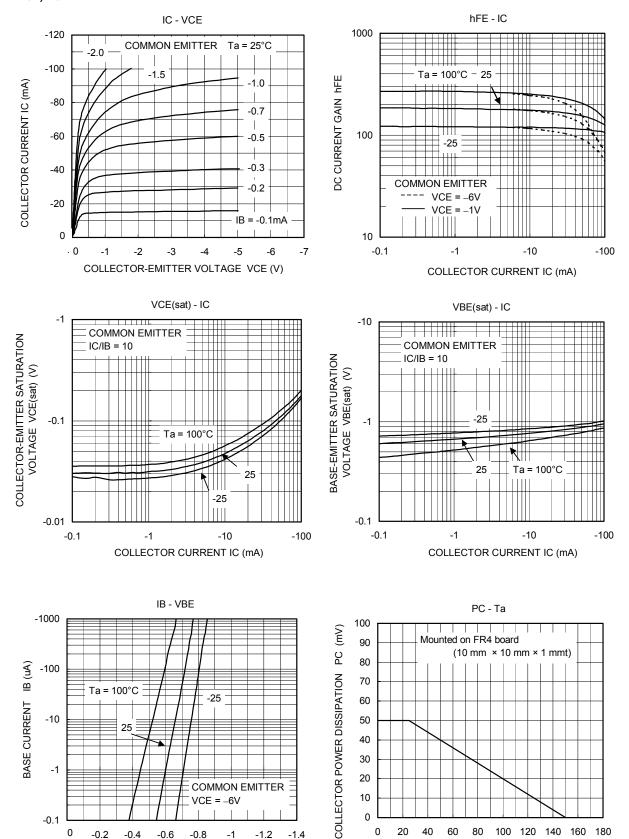
Equivalent Circuit (top view)





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Q1, Q2 Common



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AMBIENT TEMPERATURE Ta (°C)

80 100 120 140 160 180

60

COMMON EMITTER

-1

-1.2

-1.4

VCE = -6V

-0.8

BASE-EMITTER VOLTAGE VBE (V)

20

10

0

0

*: Total rating.

-0.1

-0.2

-0.4

-0.6

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