Unit: mm

TOSHIBA Transistor Silicon NPN Epitaxial Type (PCT Process)

HN2C26FS

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}	60	V
Collector-emitter voltage	V _{CEO}	50	V
Emitter-base voltage	V _{EBO}	5	V
Collector current	I _C	100	mA
Base current	Ι _Β	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 0.8±0.05 0.1±0.05 0.1±0.05 0.15±0.05 6 5 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**

2-1F1C

Weight: 0.001 g (typ.)

JEITA TOSHIBA

Electrical Characteristics (Ta = 25°C)

Characteristic	Symbol	Test Condition	Min	Тур.	Max	Unit
Collector cutoff current	I _{CBO}	$V_{CB} = 60 \text{ V}, I_{E} = 0$	_	_	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)}	$I_C = 100 \text{ mA}, I_B = 10 \text{ mA}$	_	0.1	0.25	V
Transition frequency	f _T	$V_{CE} = 10 \text{ V}, I_{C} = 1 \text{ mA}$	60	_		MHz
Collector output capacitance	C _{ob}	V _{CB} = 10 V, I _E = 0, f = 1 MHz	_	0.95	_	pF

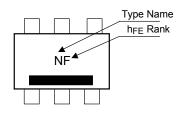
Note: hFE Classification

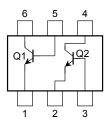
Y (F): 120 ~ 140, GR (H): 200 ~ 400

() Marking symbol

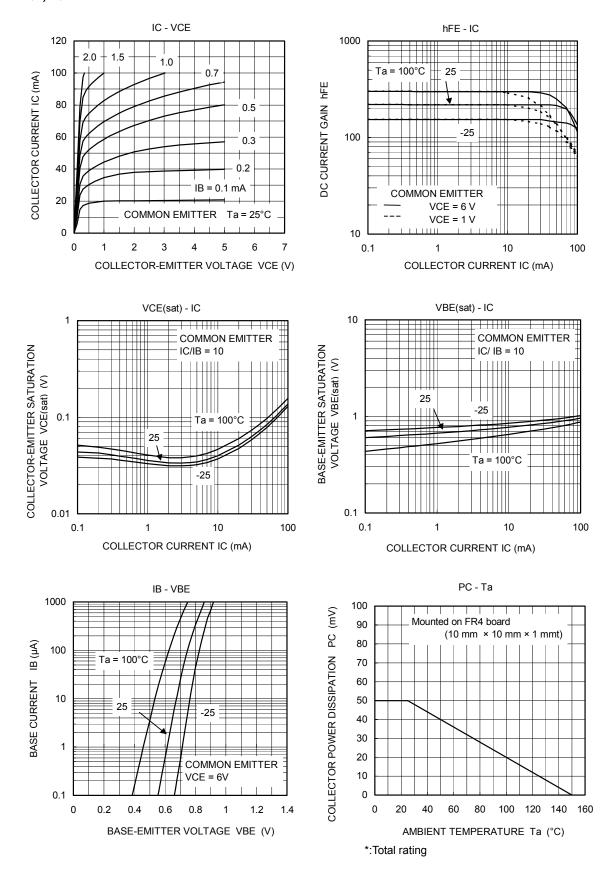
Marking

Equivalent Circuit (top view)





Q1, Q2 Common



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Handbook" etc..

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