

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: $V_{CE0} = -50$ V
- High current: $I_C = -100$ mA (max)
- High h_{FE} : $h_{FE} = 120$ to 400
- Excellent h_{FE} linearity
 $h_{FE}(I_C = -0.1 \text{ mA})/h_{FE}(I_C = -2 \text{ mA}) = 0.95$ (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	V
Collector current	I_C	-100	mA
Base current	I_B	-30	mW
Collector power dissipation	P_C (Note)	50	mW
Junction temperature	T_j	150	°C
Storage temperature range	T_{stg}	-55 ~ 150	°C

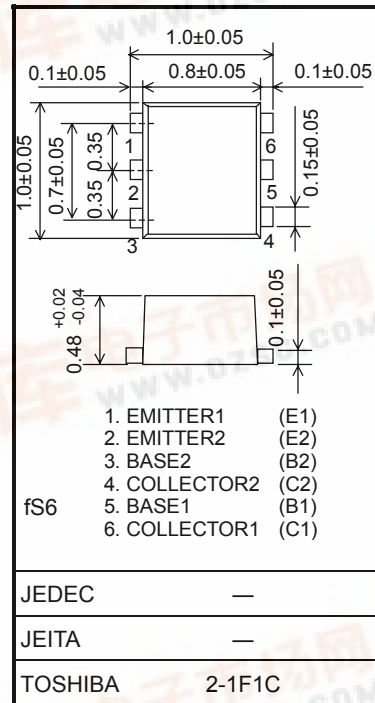
Note: Total rating.

Electrical Characteristics (Ta = 25°C)

Characteristic	Symbol	Test Condition	Min	Typ.	Max	Unit
Collector cutoff current	I_{CBO}	$V_{CB} = -50 \text{ V}, I_E = 0$	—	—	-0.1	μA
Emitter cutoff current	I_{EBO}	$V_{EB} = -5 \text{ V}, I_C = 0$	—	—	-0.1	μA
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

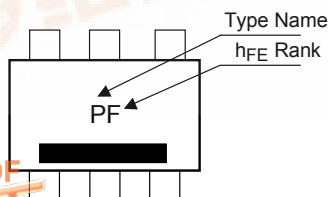
Note: h_{FE} Classification Y (F): 120 ~ 140, GR (H): 200 ~ 400
 () Marking symbol

Unit: mm

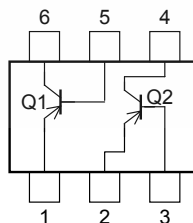


Weight: 0.001 g (typ.)

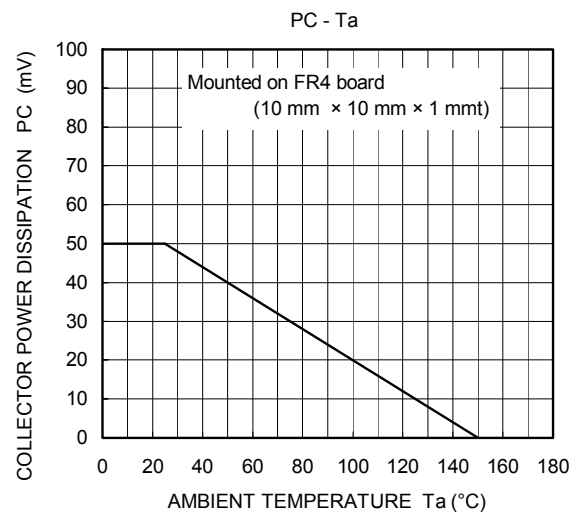
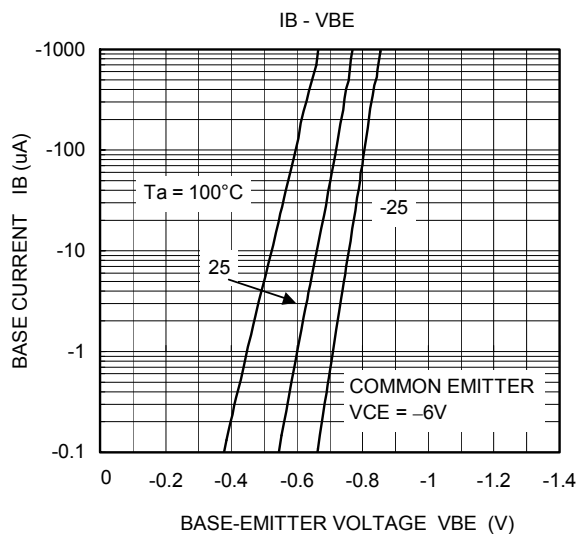
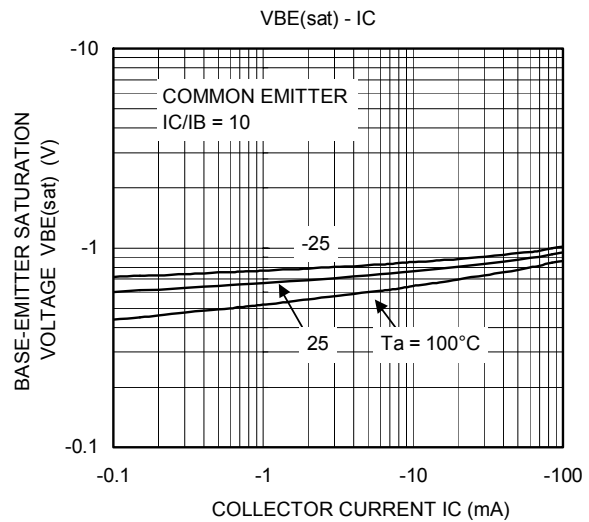
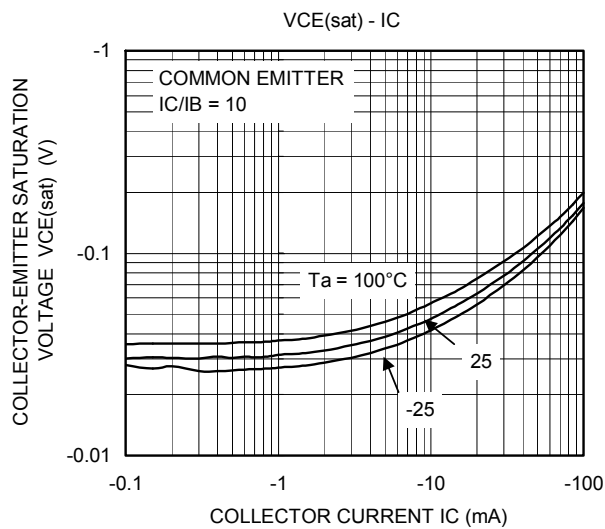
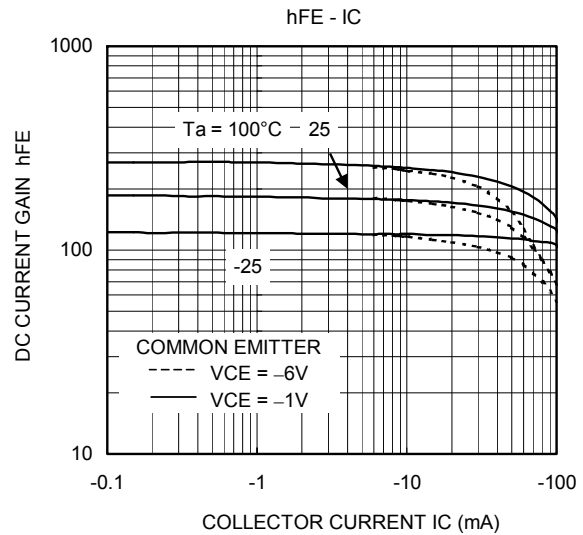
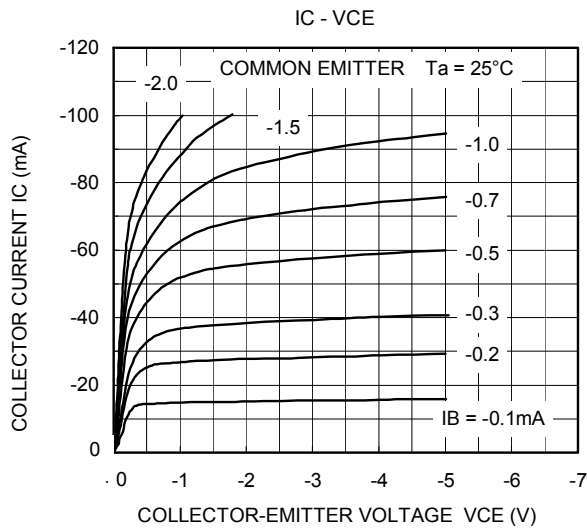
Marking



Equivalent Circuit (top view)



Q1, Q2 Common



*:Total rating.

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