查询HN1A01FE供应商 TOSHIBA

HN1A01FE

TOSHIBA Transistor Silicon PNP Epitaxial Type (PCT Process)

HN1A01FE

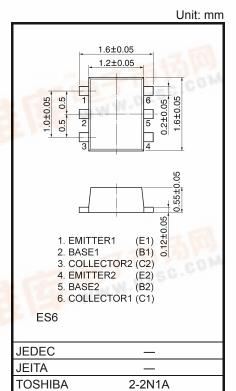
Audio Frequency General Purpose Amplifier Applications

- Small package (Dual type)
- High voltage and high current
 - : V_{CEO} = -50V, I_{C} = -150mA (max)
- High h_{FE}: h_{FE} = 120~400
- Excellent h_{FE} linearity
 - : h_{FE} (I_C = -0.1mA) / h_{FE} (I_C = -2mA) = 0.95 (typ.)

Absolute Maximum Ratings (Ta = 25°C)

(Q1, Q2 Common)

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	Ι _C	-150	mA	
Base current	IB	-30	mA	
Collector power dissipation	Pc*	100	mW	
Junction temperature	Tje G	150	°C	
Storage temperature range	T _{stg}	-55~150	°C	



Note: Using continuously under heavy loads (e.g. the application of high temperature/current/voltage and the significant change in

Weight: 3.0mg(typ.)

temperature, etc.) may cause this product to decrease in the reliability significantly even if the operating conditions (i.e. operating temperature/current/voltage, etc.) are within the absolute maximum ratings. Please design the appropriate reliability upon reviewing the Toshiba Semiconductor Reliability Handbook ("Handling Precautions"/"Derating Concept and Methods") and individual reliability data (i.e. reliability test report and estimated failure rate, etc).

*Total rating

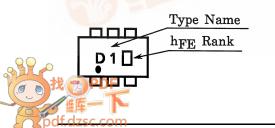
Electrical Characteristics (Ta = 25°C) (Q1,Q2 Common)

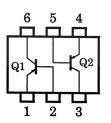
Characteristic	Symbol	Test Circuit	Test Condition	Min	Тур.	Max	Unit
Collector cut-off current	I _{CBO}	—	V _{CB} = -50V, I _E = 0	—	_	-0.1	μA
Emitter cut-off current	I _{EBO}	_	V _{EB} = -5V, I _C = 0	—	-	-0.1	μA
DC current gain	hFE (Note)	—	V_{CE} = -6V, I_C = -2mA	120	2-1	400	c.014
Collector-emitter saturation voltage	V _{CE (sat)}	—	I _C = –100mA, I _B = –10mA	122	-0.1	-0.3	V
Transition frequency	f _T	_	V _{CE} = -10V, I _C = -1mA	80	_		MHz
Collector output capacitance	Cob	-	V _{CB} = -10V, I _E = 0, f = 1MHz	—	4	—	pF

Note: h_{FE} Classification Y (Y): 120~240, GR (G): 200~400 () Marking Symbol

Marking

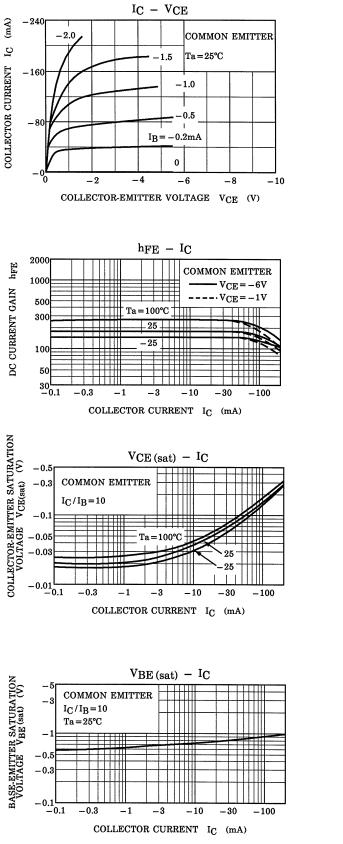
Equivalent Circuit (Top View)

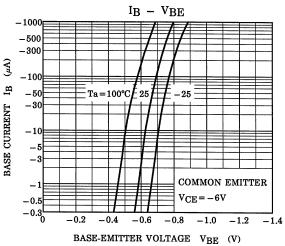


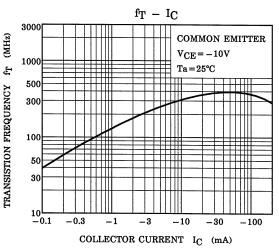


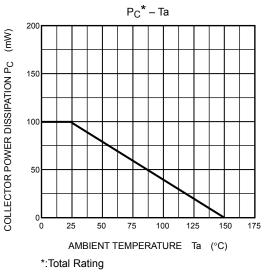
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(Q1,Q2 Common)









HN1A01FE

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RESTRICTIONS ON PRODUCT USE

20070701-EN GENERAL

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