TOSHIBA Transistor Silicon PNP Epitaxial Type (PCT Process)

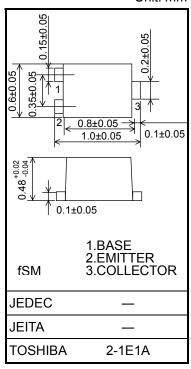
2SA2154

General-Purpose Amplifier Applications

- High voltage and high current
 - : V_{CEO} = -50 V, I_C = -100 mA (max)
- Excellent h_{FE} linearity
 - : $h_{FE} (I_C = -0.1 \text{ mA})/h_{FE} (I_C = -2 \text{ mA}) = 0.95 \text{ (typ.)}$
- High h_{FE} : h_{FE} = 120~400
- Complementary to 2SC6026
- 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	Ι _C	-100	mA
Base current	Ι _Β	-30	mA
Collector power dissipation	P _C	50	mW
Junction temperature	Tj	150	°C
Storage temperature range	T _{stg}	-55~150	°C



Weight: 0.0006 g (typ.)

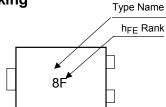
Electrical Characteristics (Ta = 25°C)

Characteristic	Symbol	Test Condition	Min	Тур.	Max	Unit
Collector cutoff current	I _{CBO}	$V_{CB} = -50 \text{ V}, \text{ I}_{E} = 0$	_	_	-0.1	μA
Emitter cutoff current	I _{EBO}	$V_{EB} = -5 \text{ V}, \text{ I}_{C} = 0$	_	_	-0.1	μA
DC current gain	h _{FE} (Note)	$V_{CE} = -6 \text{ V}, \text{ I}_{C} = -2 \text{ mA}$	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	$V_{CE} = -10 \ V, \ I_C = -1 \ mA$	80			MHz
Collector output capacitance	C _{ob}	$V_{CB} = -10 \text{ V}, \text{ I}_{E} = 0, \text{ f} = 1 \text{ MHz}$		1.6		pF

Note: h_{FE} classification Y (F): 120~240, GR (H): 200~400 () marking symbol

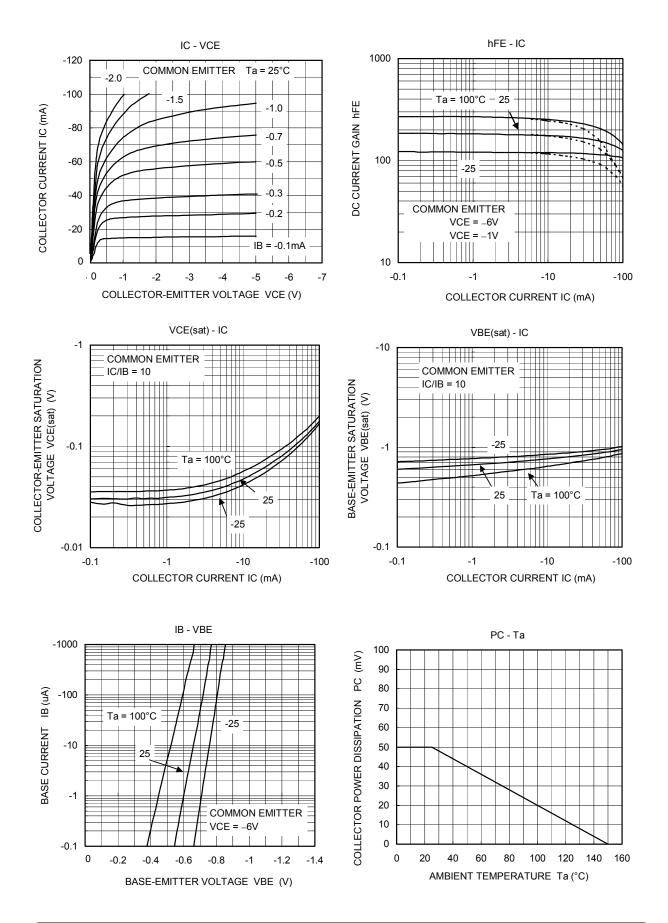
() marking symbol

Marking



Unit: mm

TOSHIBA



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