1.2 ± 0.05

0.80 ± 0.05

1.BASE 2.EMITTER

3.COLLECTOR

2-1L1A

Unit: mm

 32 ± 0.05

TOSHIBA Transistor Silicon PNP Epitaxial Type (PCT Process)

2SA2154MFV

General-Purpose Amplifier Applications

High voltage and high current

: $V_{CEO} = -50 \text{ V}$, $I_{C} = -150 \text{ mA (max)}$

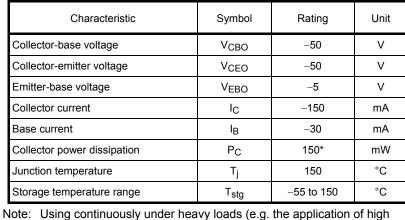
Excellent hFE linearity

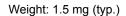
: $h_{FE} (I_C = -0.1 \text{ mA})/h_{FE} (I_C = -2 \text{ mA}) = 0.95 \text{ (typ.)}$

: h_{FE} = 120 to 400 High hFE Complementary to 2SC6026MFV

Absolute 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	IC	-150	mA
Base current	ΙΒ	-30	mA
Collector power dissipation	PC	150*	mW
Junction temperature	Tj	150	°C
Storage temperature range	T _{stg}	-55 to 150	°C





VESM

JEDEC **JEITA TOSHIBA**

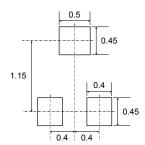
 1.2 ± 0.05

temperature/current/voltage and the significant change in 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

*: Mounted on FR4 board (25.4 mm × 25.4 mm × 1.6mm)

Mount Pad Dimensions (Reference)

and estimated failure rate, etc).



Unit: mm

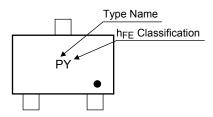
Electrical Characteristics (Ta = 25°C)

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

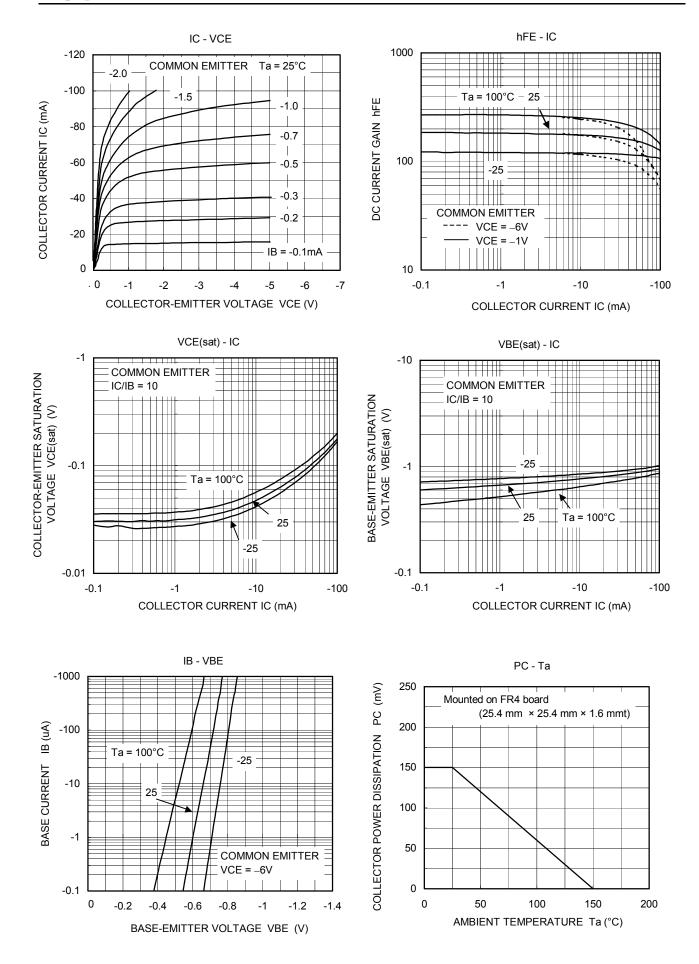
Note: h_{FE} classification Y(Y): 120 to 240, GR (G): 200 to 400

() marking symbol

Marking



2



3 2014-03-01

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