

2SA2154MFV

General-Purpose Amplifier Applications

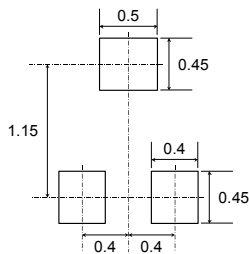
- High voltage and high current
: $V_{CEO} = -50\text{ V}$, $I_C = -150\text{ mA}$ (max)
- Excellent h_{FE} linearity
: $h_{FE} (I_C = -0.1\text{ mA})/h_{FE} (I_C = -2\text{ mA}) = 0.95$ (typ.)
- High h_{FE} : $h_{FE} = 120\sim400$
- Complementary to 2SC6026MFV
- Lead (Pb) - free

Maximum Ratings ($T_a = 25^\circ\text{C}$)

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	-150	mA
Base current	I_B	-30	mA
Collector power dissipation	P_C	150*	mW
Junction temperature	T_j	150	$^\circ\text{C}$
Storage temperature range	T_{stg}	-55~150	$^\circ\text{C}$

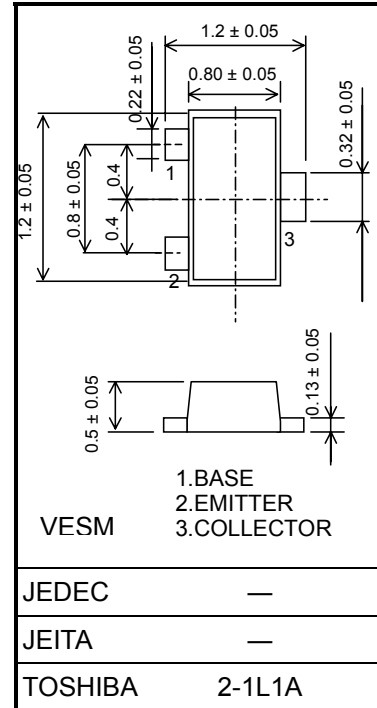
* : Mounted on FR4 board (25.4 mm × 25.4 mm × 1.6mm)

Mount Pad Dimensions (Reference)



Unit: mm

Unit: mm



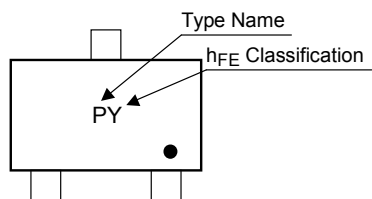
Weight: 0.0015 g (typ.)

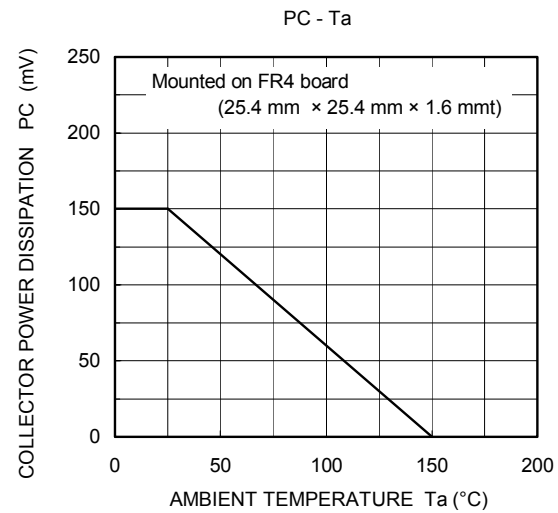
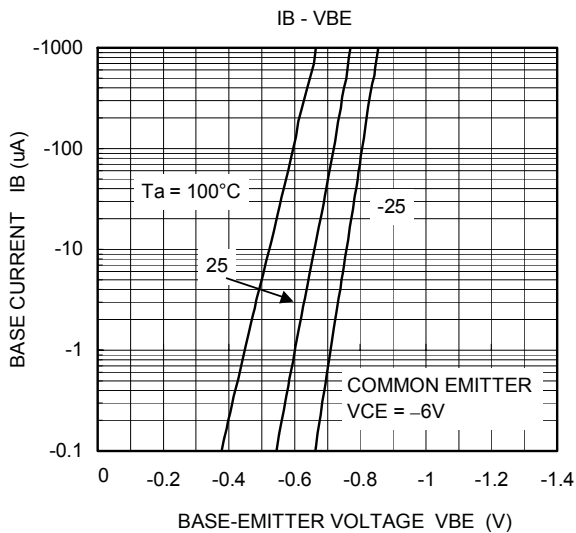
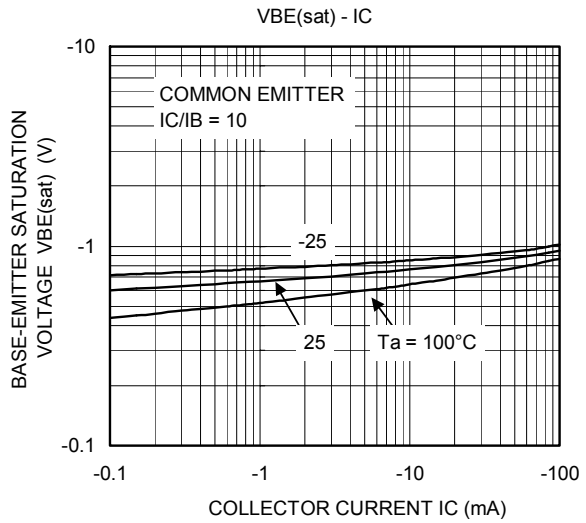
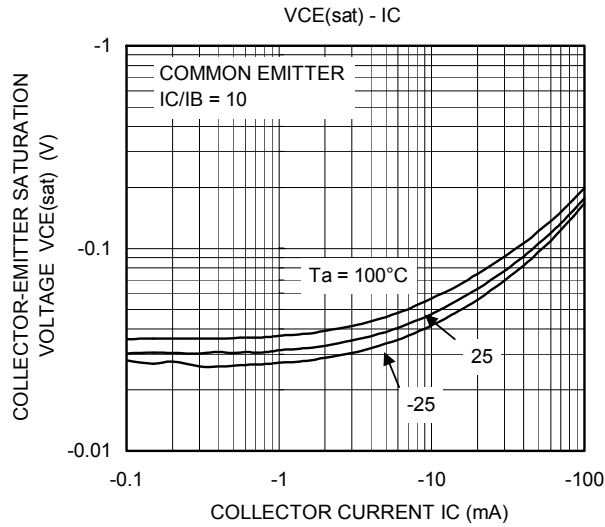
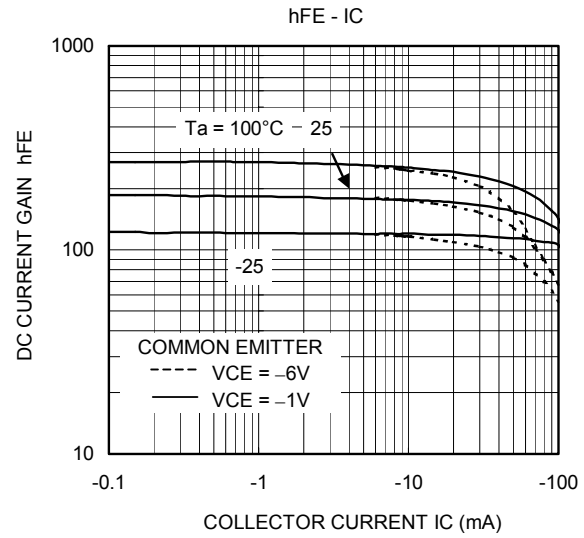
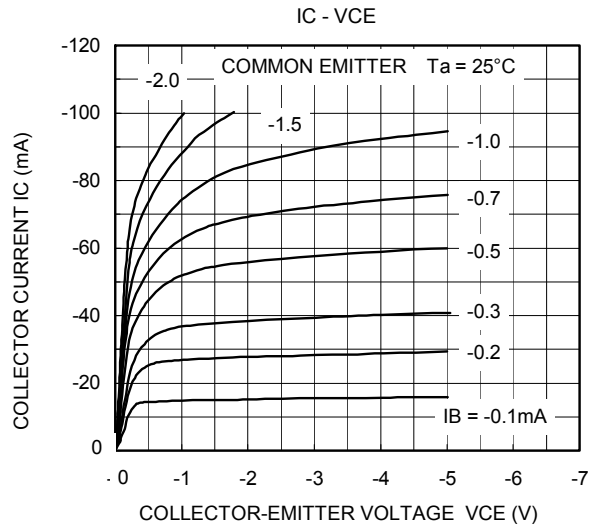
Electrical Characteristics (Ta = 25°C)

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 (Y): 120~240, GR (G): 200~400
 () marking symbol

Marking





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