

# 2SA1832FV

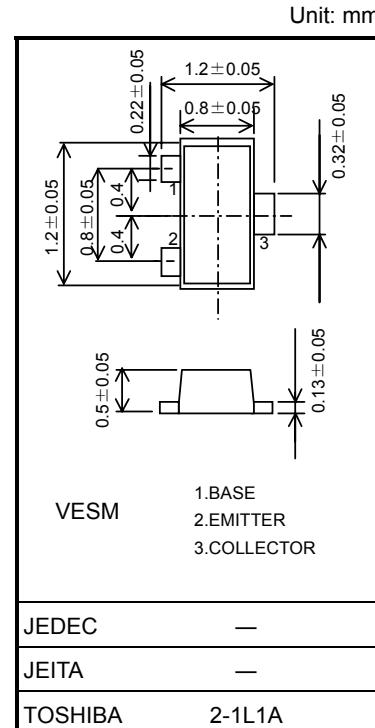
## Audio Frequency General Purpose Amplifier Applications

- High voltage:  $V_{CEO} = -50$  V
- High current:  $I_C = -150$  mA (max)
- High  $h_{FE}$ :  $h_{FE} = 120$  to 400
- Excellent  $h_{FE}$  linearity  
    :  $h_{FE} (I_C = -0.1$  mA)/ $h_{FE} (I_C = -2$  mA) = 0.95 (typ.)
- Complementary to 2SC4738FV

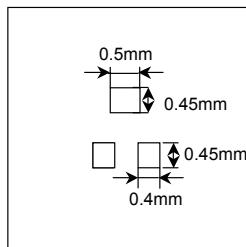
### Maximum Ratings (Ta = 25°C)

Characteristics	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	mW
Collector power dissipation	$P_C$ (Note)	150	mW
Junction temperature	$T_j$	150	°C
Storage temperature range	$T_{stg}$	-55 ~ 150	°C

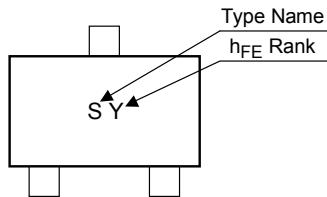
Note : Mounted on FR4 board (25.4 mm × 25.4 mm × 1.6 mm)



Weight: 0.0015 g(typ.)



## Marking

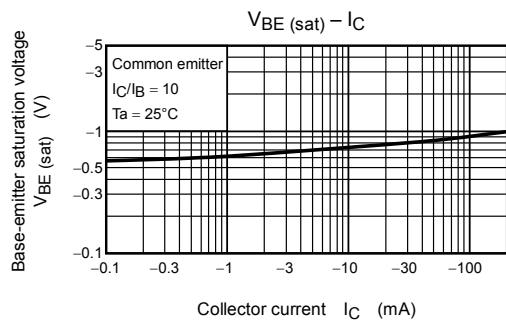
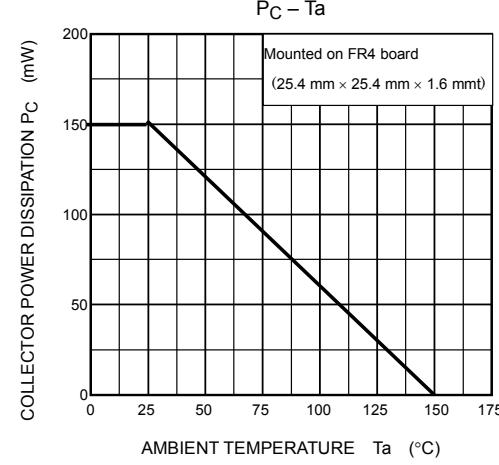
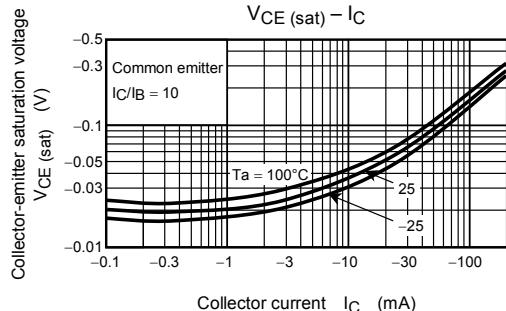
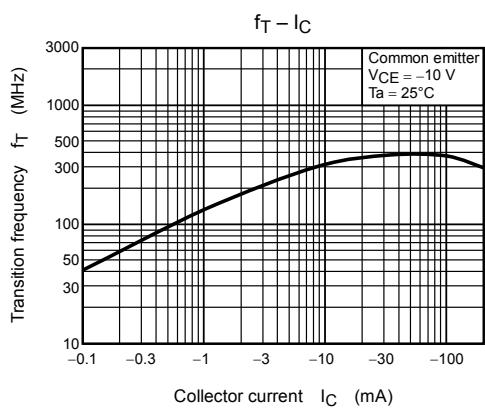
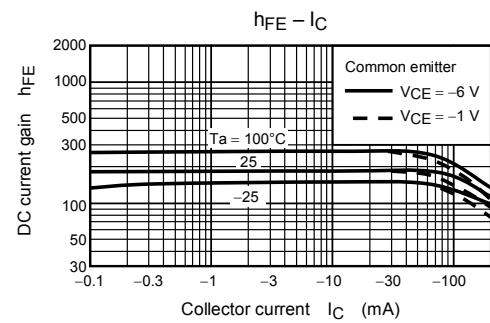
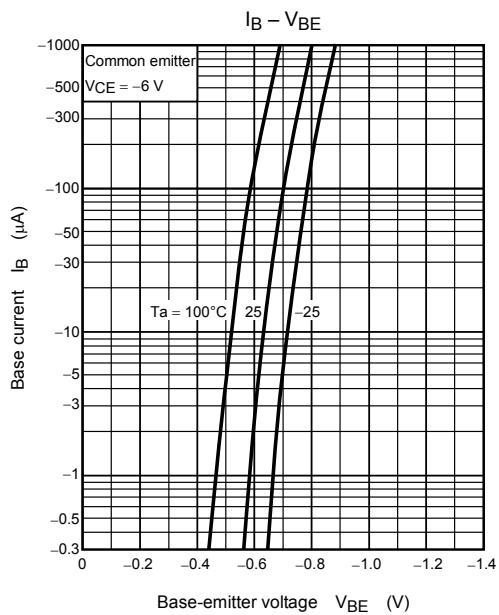
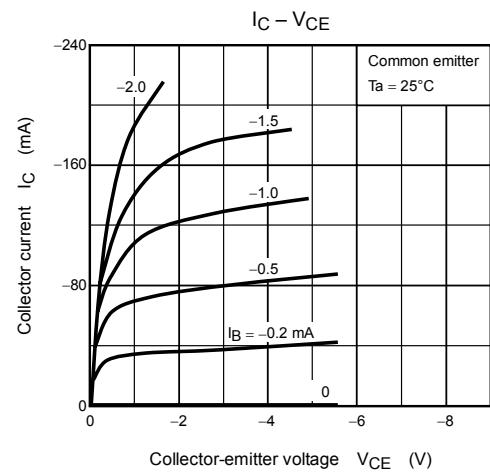


**Electrical Characteristics (Ta = 25°C)**

Characteristics	Symbol	Test Condition	Min	Typ.	Max	Unit
Collector cut-off current	I <sub>CBO</sub>	V <sub>CB</sub> = -50 V, I <sub>E</sub> = 0	—	—	-0.1	μA
Emitter cut-off current	I <sub>EBO</sub>	V <sub>EB</sub> = -5 V, I <sub>C</sub> = 0	—	—	-0.1	μA
DC current gain (Note)	$h_{FE}$	V <sub>CE</sub> = -6 V, I <sub>C</sub> = -2 mA	120	—	400	
Collector-emitter saturation voltage	V <sub>CE</sub> (sat)	I <sub>C</sub> = -100 mA, I <sub>B</sub> = -10 mA	—	-0.1	-0.3	V
Transition frequency	f <sub>T</sub>	V <sub>CE</sub> = -10 V, I <sub>C</sub> = -1 mA	80	—	—	MHz
Collector output capacitance	C <sub>ob</sub>	V <sub>CB</sub> = -10 V, I <sub>E</sub> = 0, f = 1 MHz	—	4	—	pF

Note:  $h_{FE}$  Classification Y (Y): 120 ~ 140, GR (G): 200 ~ 400

( ) Marking symbol



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