TOSHIBA Transistor Silicon PNP Epitaxial Type (PCT process)

2SA1832F

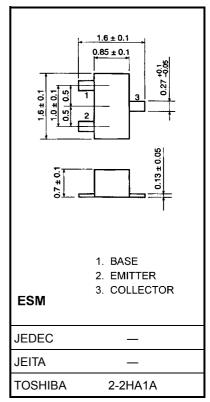
Audio Frequency General Purpose Amplifier Applications

Unit: mm

- High voltage and high current: $V_{\rm CEO}$ = -50 V, $I_{\rm C}$ = -150 mA (max)
- Excellent hFE linearity: hFE (IC = -0.1 mA)/hFE (IC = -2 mA) = 0.95 (typ.)
- High h_{FE} : $h_{FE} = 120 \sim 400$
- Complementary to 2SC4738F
- Small package

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	IC	-150	mA	
Base current	ΙΒ	-30	mA	
Collector power dissipation	P _C	100	mW	
Junction temperature	Tj	125	°C	
Storage temperature range	T _{stg}	−55~125	°C	



Weight: 2.3 mg (typ.)

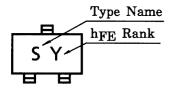
Electrical Characteristics (Ta = 25°C)

Characteristics	Symbol	Test Condition	Min	Тур.	Max	Unit
Collector cut-off current	I _{CBO}	$V_{CB} = -50 \text{ V}, I_E = 0$	_	_	-0.1	μΑ
Emitter cut-off current	I _{EBO}	$V_{EB} = -5 \text{ V}, I_C = 0$		_	-0.1	μΑ
DC current gain	h _{FE} (Note)	$V_{CE} = -6 \text{ V}, I_{B} = -2 \text{ mA}$	120	_	400	
Collector-emitter saturation voltage	V _{CE} (sat)	$I_C = -100 \text{ mA}, I_B = -10 \text{ mA}$	_	-0.1	-0.3	٧
Transition frequency	f _T	$V_{CE} = -10 \text{ V}, I_{C} = -1 \text{ mA}$	80	_	_	MHz
Collector output capacitance	C _{ob}	$V_{CB} = -10 \text{ V}, I_E = 0, f = 1 \text{ MHz}$	—	4	7	pF

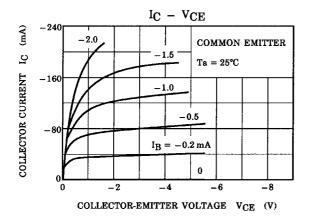
Note: hFE classification Y (Y): 120~240, GR (G): 200~400

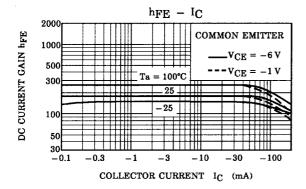
() marking symbol

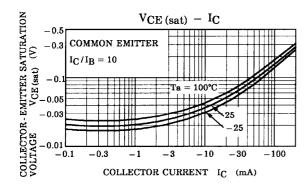
Marking

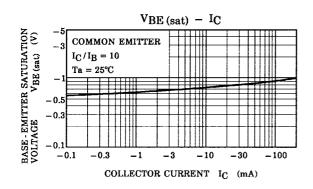


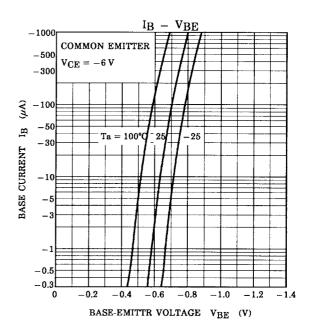
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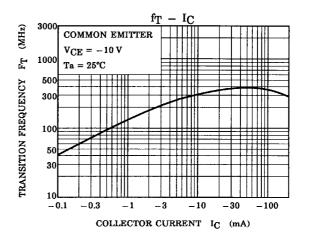


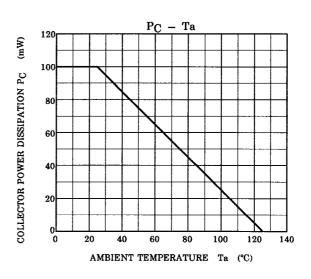












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