Unit: mm

TOSHIBA Transistor Silicon PNP Epitaxial Type (PCT process)

2SA1832

Audio Frequency General Purpose Amplifier Applications

• High voltage and high current: $V_{CEO} = -50 \text{ V}$, $I_C = -150 \text{ mA}$ (max)

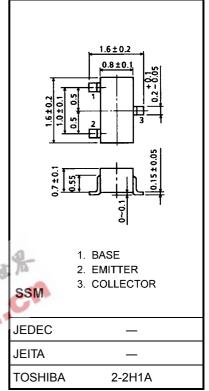
• Excellent hFE linearity: h_{FE} (I_C = -0.1 mA)/ h_{FE} (I_C = -2 mA)

= 0.95 (typ.)

- High h_{FE} : $h_{FE} = 70 \sim 400$
- Complementary to 2SC4738
- 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	Ι _C	-150	mA	6
Base current	Ι _Β	-30	mA	-
Collector power dissipation	P _C	100	mW	27
Junction temperature	Tj	125	°C	
Storage temperature range	Tstg	-55~125	°C	



Weight: 2.4 mg (typ.)

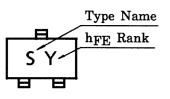
Electrical Characteristics (Ta = 25°C)

Characteristics		Symbol	Test Condition	Min	Тур.	Max	Unit
Collector cut-off current		I _{CBO}	$V_{CB} = -50 \text{ V}, \text{ I}_{E} = 0$	_		-0.1	μA
Emitter cut-off current		I _{EBO}	$V_{EB}=-5~V,~I_C=0$		—	-0.1	μA
DC current gain		h _{FE} (Note)	$V_{CE} = -6 \text{ V}, \text{ I}_{C} = -2 \text{ mA}$	70	_	400	
Collector-emitter saturation vo	oltage	V _{CE (sat)}	$I_{C} = -100 \text{ mA}, I_{B} = -10 \text{ mA}$		-0.1	-0.3	V
Transition frequency		f _T	$V_{CE} = -10 V, I_{C} = -1 mA$	80	_	_	MHz
Collector output capacitance Cot		C _{ob}	$V_{CB} = -10 V, I_E = 0, f = 1 MHz$	_	4	7	pF

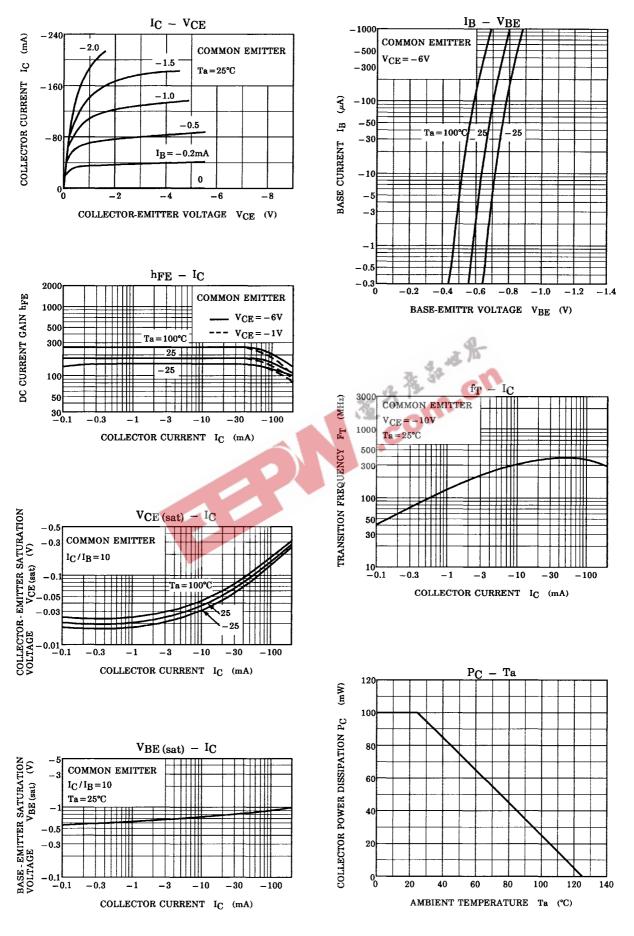
Note: hFE classification O (O): 70~140, Y (Y): 120~240, GR (G): 200~400

() marking symbol

Marking



TOSHIBA



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