

TOSHIBA

2SA1832F

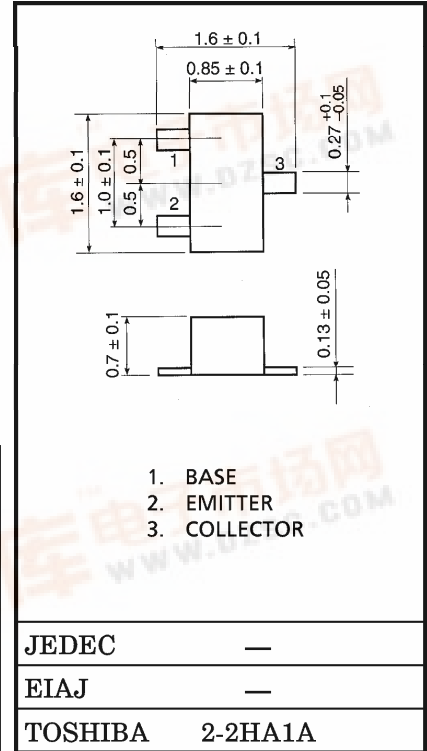
TOSHIBA TRANSISTOR SILICON PNP EPITAXIAL TYPE (PCT PROCESS)

2SA1832F

AUDIO FREQUENCY GENERAL PURPOSE AMPLIFIER APPLICATIONS

Unit in mm

- 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} : $h_{FE} = 120\sim 400$
- Complementary to 2SC4738F
- Small Package



MAXIMUM RATINGS ($T_a = 25^\circ\text{C}$)

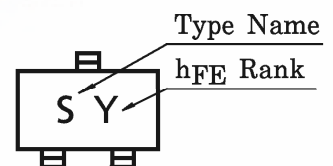
CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V_{CBO}	-50	V
Collector-Emitter Voltage	V_{CEO}	-50	V
Emitter-Base Voltage	V_{EBO}	-5	V
Collector Current	I_C	-150	mA
Base Current	I_B	-30	mA
Collector Power Dissipation	P_C	100	mW
Junction Temperature	T_j	125	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	-55~125	$^\circ\text{C}$

ELECTRICAL CHARACTERISTICS ($T_a = 25^\circ\text{C}$)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I_{CBO}	$V_{CB} = -50\text{ V}$, $I_E = 0$	—	—	-0.1	μA
Emitter Cut-off Current	I_{EBO}	$V_{EB} = -5\text{ V}$, $I_C = 0$	—	—	-0.1	μA
DC Current Gain	h_{FE} (Note)	$V_{CE} = -6\text{ V}$, $I_B = -2\text{ mA}$	120	—	400	
Collector-Emitter Saturation Voltage	$V_{CE}(\text{sat})$	$I_C = -100\text{ mA}$, $I_B = -10\text{ mA}$	—	-0.1	-0.3	V
Transition Frequency	f_T	$V_{CE} = -10\text{ V}$, $I_C = -1\text{ mA}$	80	—	—	MHz
Collector Output Capacitance	C_{ob}	$V_{CB} = -10\text{ V}$, $I_E = 0$, $f = 1\text{ MHz}$	—	4	7	pF

(Note) : h_{FE} Classification Y(Y) : 120~240, GR(G) : 200~400
() Marking Symbol

MARKING



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