TOSHIBA TRANSISTOR SILICON PNP EPITAXIAL TYPE (PCT PROCESS)

2SA1360

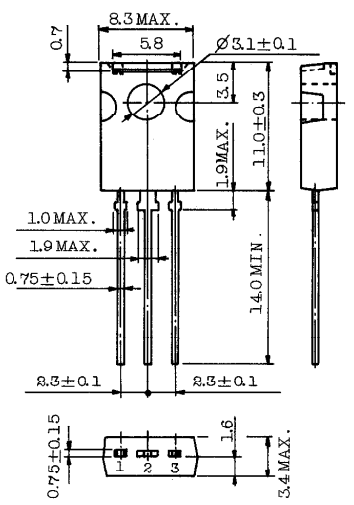
AUDIO FREQUENCY AMPLIFIER APPLICATIONS.

- Complementary to 2SC3423
- Small Collector Output Capacitance : C_{ob} = 2.5pF (Typ.)
- High Transition Frequency : f_T = 200MHz (Typ.)

MAXIMUM RATINGS (Ta = 25°C)

CHARACTERISTIC		SYMBOL	RATING	UNIT
Collector-Base Voltage		V_{CBO}	−150	V
Collector-Emitter Voltage		V_{CEO}	−150	V
Emitter-Base Voltage		V_{EBO}	−5	V
Collector Current		I_C	−50	mA
Base Current		I_B	−5	mA
Collector Power Dissipation	Ta = 25°C	P_C	1.2	W
	Tc = 25°C		5	
Junction Temperature		T_j	150	°C
Storage Temperature Range		T_{stg}	−55~150	°C

Unit in mm



1. EMITTER
2. COLLECTOR
3. BASE

JEDEC	—
EIAJ	—
TOSHIBA	2-8H1A

Weight : 0.82g

ELECTRICAL CHARACTERISTICS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I_{CBO}	V_{CB} = −150V, I_E = 0	—	—	−0.1	μA
Emitter Cut-off Current	I_{EBO}	V_{EB} = −5V, I_C = 0	—	—	−0.1	μA
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	I_C = −1mA, I_B = 0	−150	—	—	V
DC Current Gain	h_{FE} (Note)	V_{CE} = −5V, I_C = −10mA	80	—	240	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	I_C = −10mA, I_B = −1mA	—	—	−1.0	V
Base-Emitter Voltage	V_{BE}	V_{CE} = −5V, I_C = −10mA	—	—	−0.8	V
Transition Frequency	f_T	V_{CE} = −10V, I_C = −10mA	—	200	—	MHz
Collector Output Capacitance	C_{ob}	V_{CB} = −10V, I_E = 0, f = 1MHz	—	2.5	—	pF

Note : h_{FE} Classification O : 80~160, Y : 120~240

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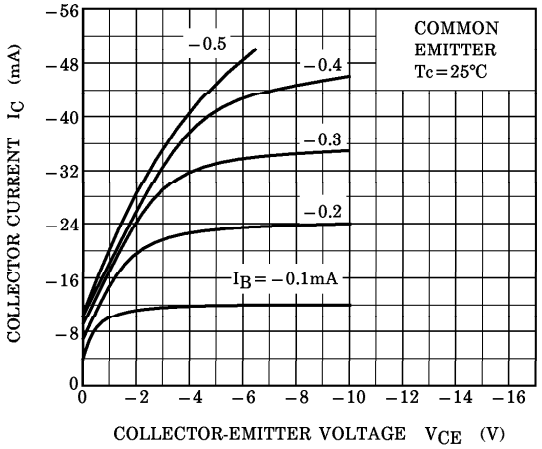
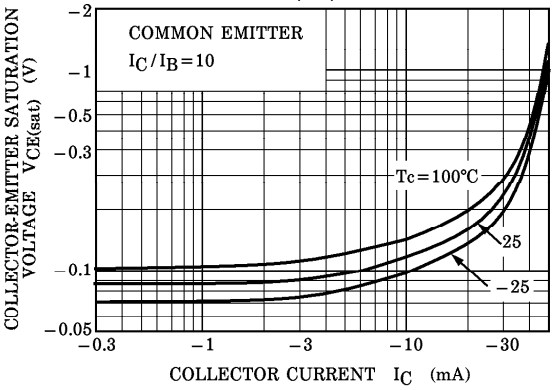
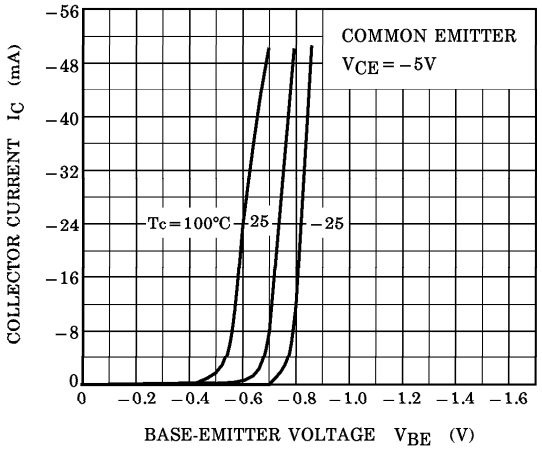
I_C – V_{CE}



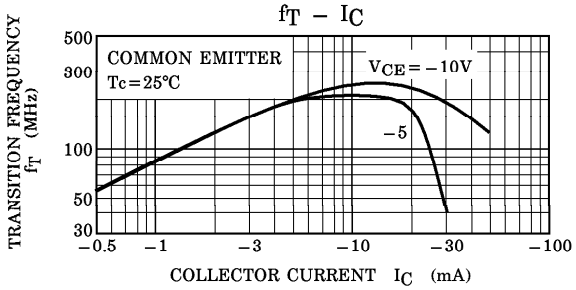
$V_{CE(sat)}$ – I_C



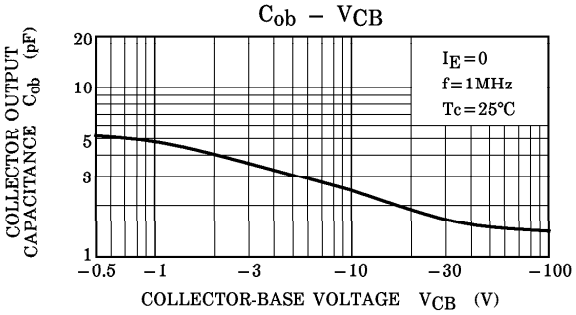
I_C – V_{BE}



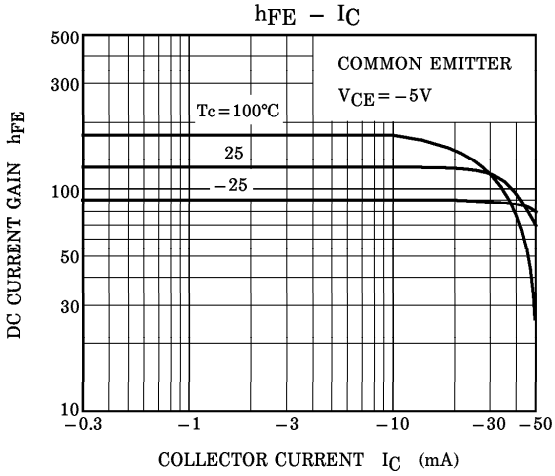
f_T – I_C



C_{ob} – V_{CB}



h_{FE} – I_C



P_C – T_a