

TOSHIBA TRANSISTOR SILICON PNP EPITAXIAL TYPE (PCT PROCESS)

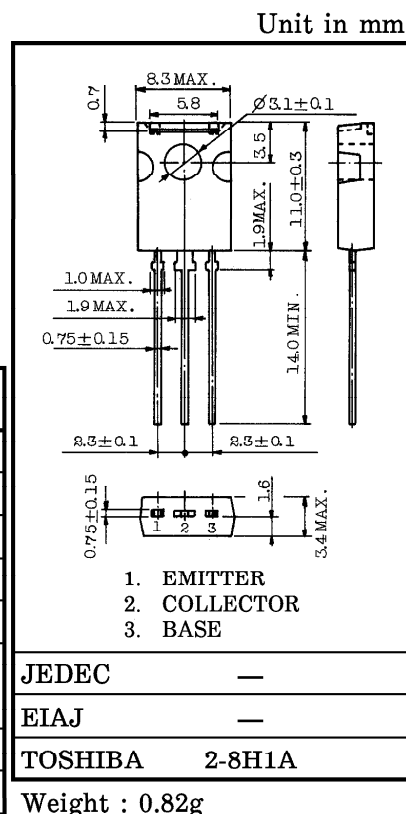
2SA1359

AUDIO FREQUENCY POWER AMPLIFIER.
LOW SPEED SWITCHING.

- Suitable for Output Stage of 5 Watts Car Radio and Car Stereo.
- Good Linearity of h_{FE} .
- Complementary to 2SC3422.

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

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V_{CBO}	-40	V
Collector-Emitter Voltage	V_{CEO}	-40	V
Emitter-Base Voltage	V_{EBO}	-5	V
Collector Current	I_C	-3	A
Base Current	I_B	-1	A
Collector Power Dissipation	$T_a = 25^\circ\text{C}$ $T_c = 25^\circ\text{C}$	P_C	W
Junction Temperature	T_j	150	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	-55~150	$^\circ\text{C}$

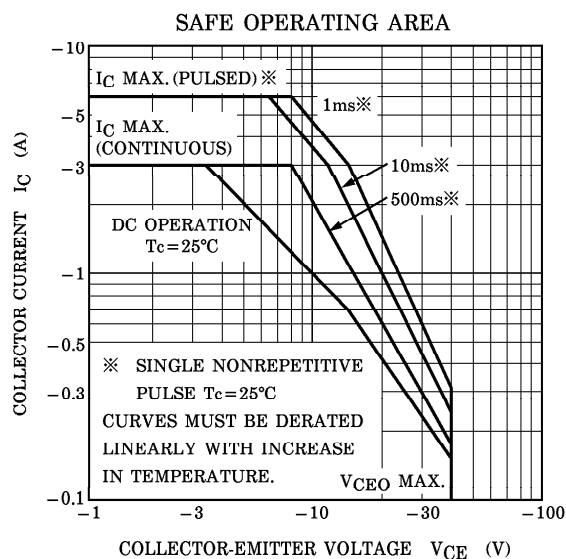
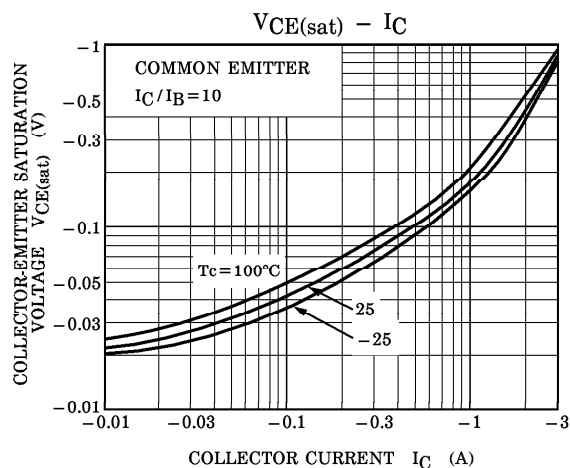
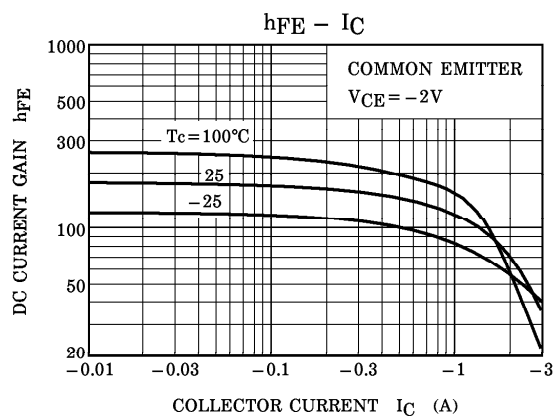
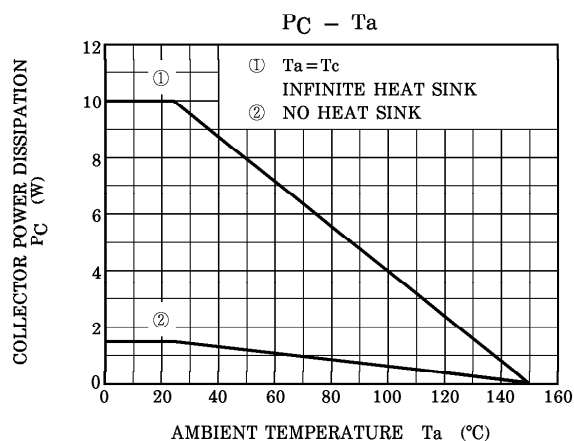
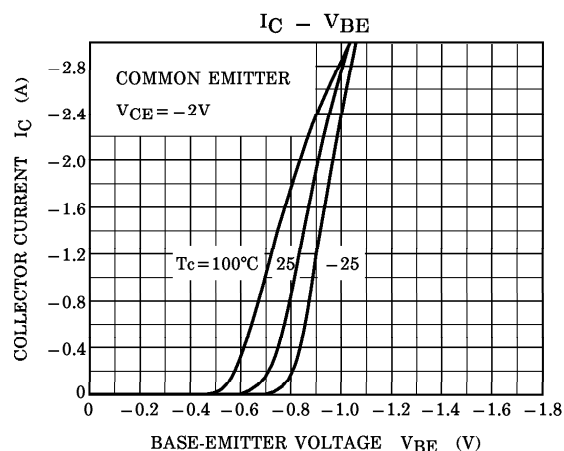
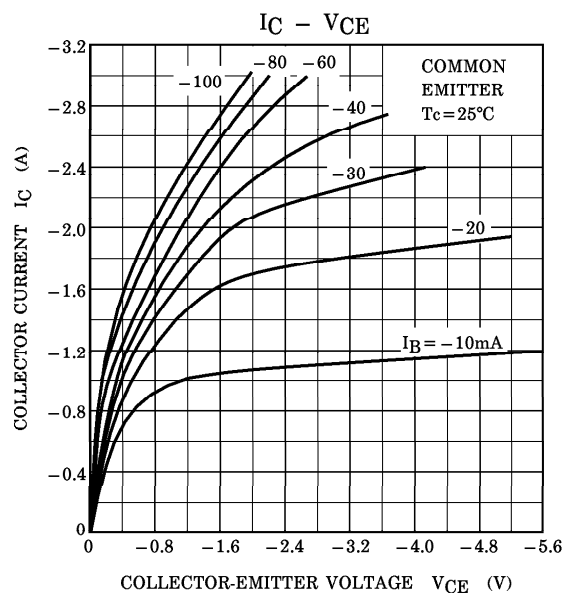
ELECTRICAL CHARACTERISTICS ($T_a = 25^\circ\text{C}$)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I_{CBO}	$V_{CB} = -40\text{V}, I_E = 0$	—	—	100	nA
Emitter Cut-off Current	I_{EBO}	$V_{EB} = -5\text{V}, I_C = 0$	—	—	100	nA
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C = -10\text{mA}, I_B = 0$	-40	—	—	V
DC Current Gain	$h_{FE(1)}$ (Note)	$V_{CE} = -2\text{V}, I_C = -0.5\text{A}$	80	—	240	
	$h_{FE(2)}$	$V_{CE} = -2\text{V}, I_C = -2.5\text{A}$	25	—	—	
Collector Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C = -2\text{A}, I_B = -0.2\text{A}$	—	—	-0.8	V
Base-Emitter Voltage	V_{BE}	$V_{CE} = -2\text{V}, I_C = -0.5\text{A}$	—	—	-1.0	V
Transition Frequency	f_T	$V_{CE} = -2\text{V}, I_C = -0.5\text{A}$	—	100	—	MHz
Collector Output Capacitance	C_{ob}	$V_{CB} = -10\text{V}, I_E = 0, f = 1\text{MHz}$	—	35	—	pF

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

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