TOSHIBA TRANSISTOR SILICON PNP EPITAXIAL TYPE (PCT PROCESS)

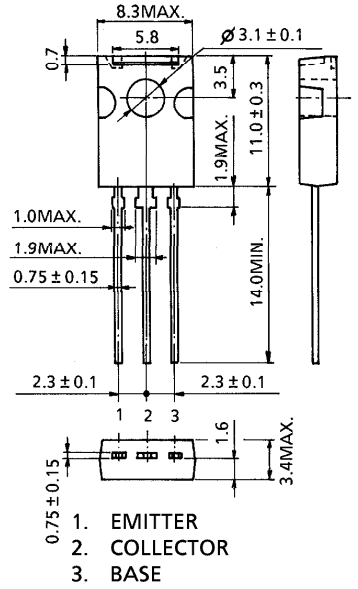
2SA1359

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.

Unit in mm



JEDEC	—
JEITA	—
TOSHIBA	2-8H1A

Weight : 0.82g (Typ.)

MAXIMUM RATINGS (Tc = 25°C)

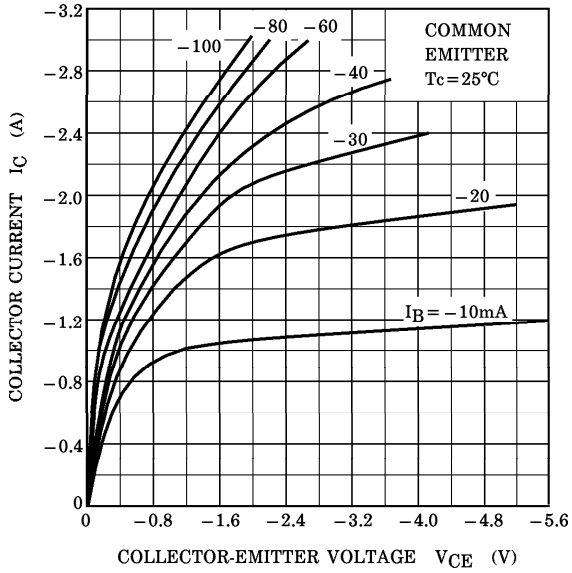
CHARACTERISTIC		SYMBOL	RATING	UNIT
Collector-Base Voltage		V_{CBO}	−40	V
Collector-Emitter Voltage		V_{CEO}	−40	V
Emitter-Base Voltage		V_{EBO}	−5	V
Collector Current		I_C	−3	A
Base Current		I_B	−1	A
Collector Power Dissipation	Ta = 25°C	P_C	1.5	W
	Tc = 25°C		10	
Junction Temperature		T_j	150	°C
Storage Temperature Range		T_{stg}	−55~150	°C

ELECTRICAL CHARACTERISTICS (Tc = 25°C)

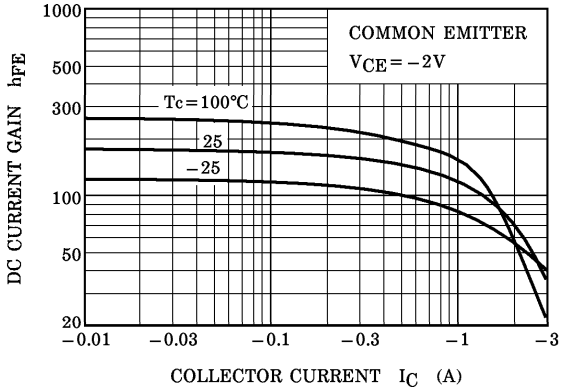
CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I_{CBO}	V_{CB} = −40V, I_E = 0	—	—	100	nA
Emitter Cut-off Current	I_{EBO}	V_{EB} = −5V, I_C = 0	—	—	100	nA
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	I_C = −10mA, I_B = 0	−40	—	—	V
DC Current Gain	$h_{FE(1)}$ (Note)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

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

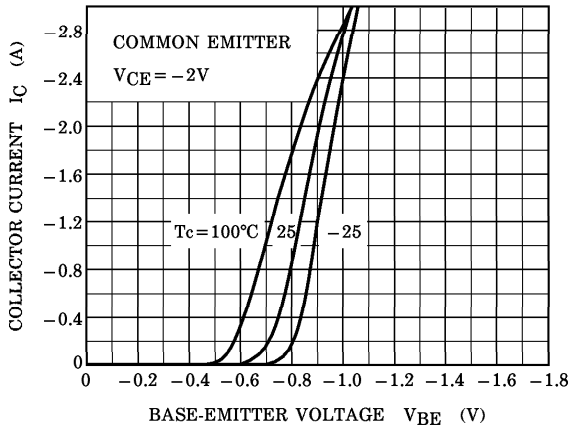
I_C – V_{CE}



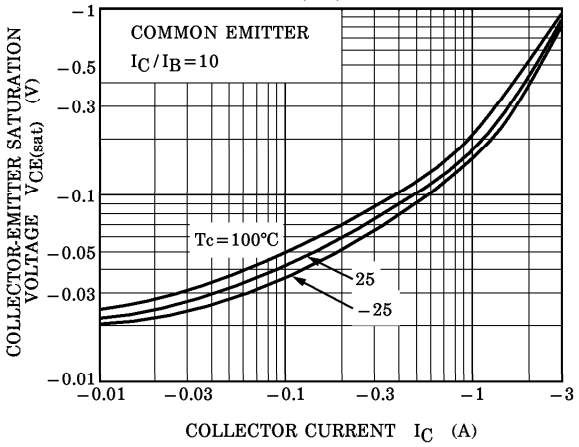
h_{FE} – I_C



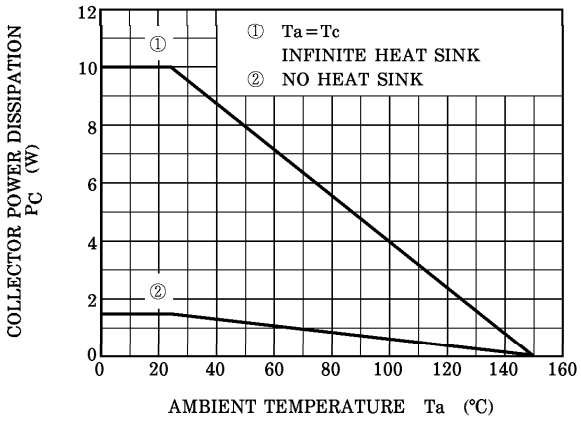
I_C – V_{BE}



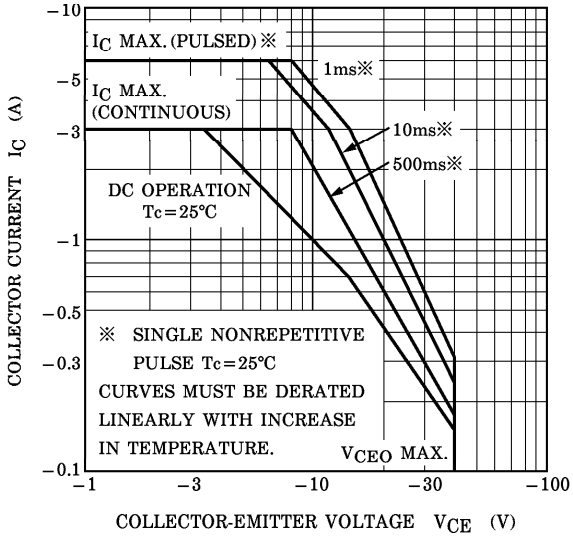
$V_{CE(sat)}$ – I_C



P_C – Ta



SAFE OPERATING AREA



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