

TOSHIBA TRANSISTOR SILICON PNP TRIPLE DIFFUSED TYPE

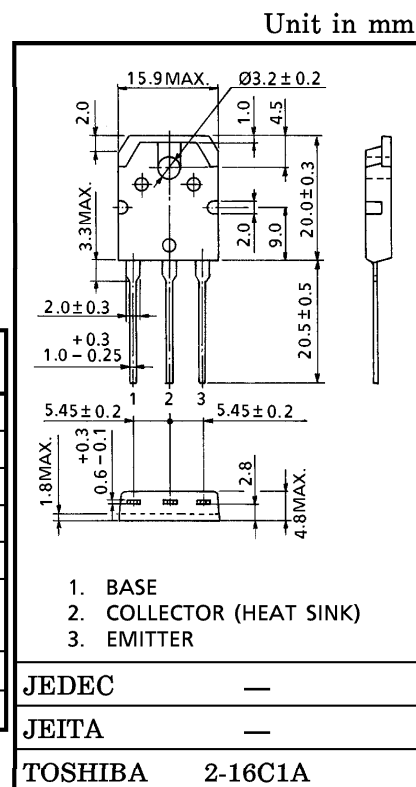
2SA1941

POWER AMPLIFIER APPLICATIONS

- Complementary to 2SC5198
- Recommend for 70W High Fidelity Audio Frequency Amplifier Output Stage

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

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V_{CB0}	-140	V
Collector-Emitter Voltage	V_{CE0}	-140	V
Emitter-Base Voltage	V_{EB0}	-5	V
Collector Current	I_C	-10	A
Base Current	I_B	-1	A
Collector Power Dissipation ($T_c = 25^\circ\text{C}$)	P_C	100	W
Junction Temperature	T_j	150	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	-55~150	$^\circ\text{C}$

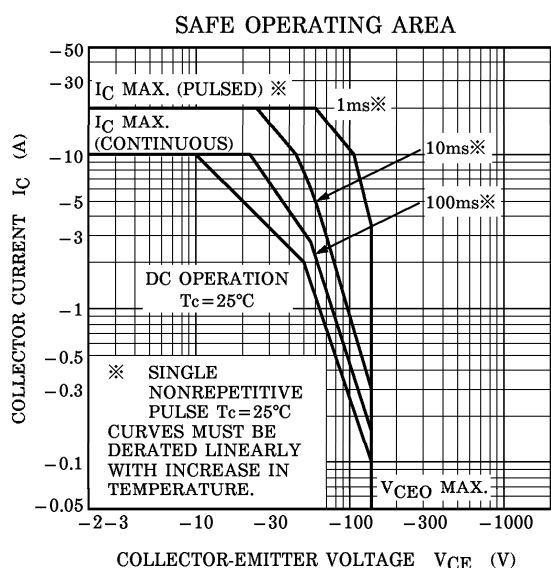
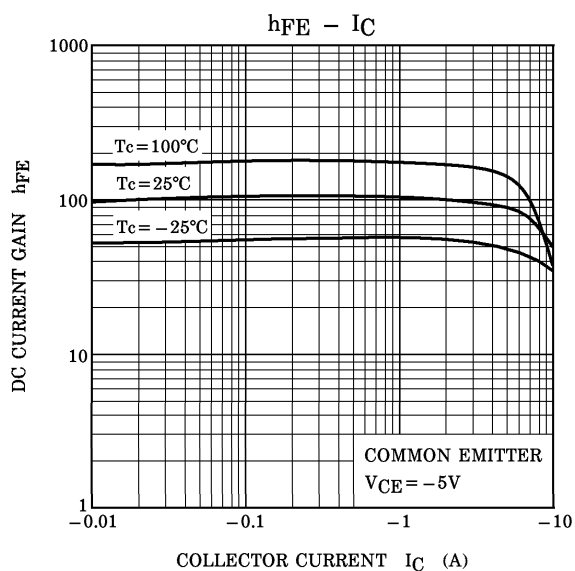
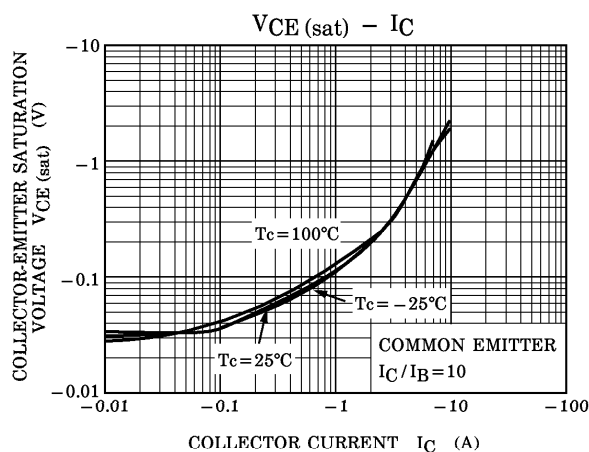
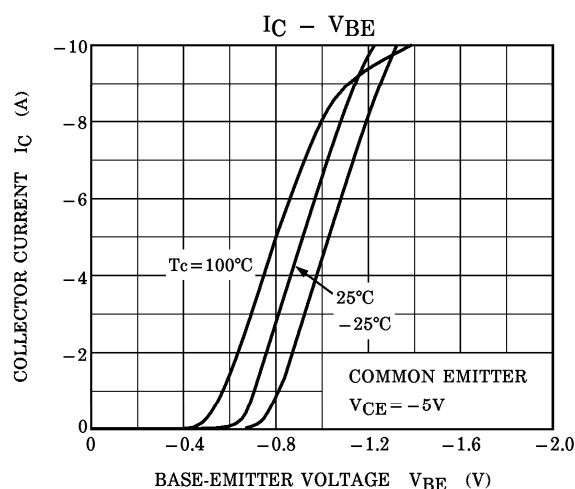
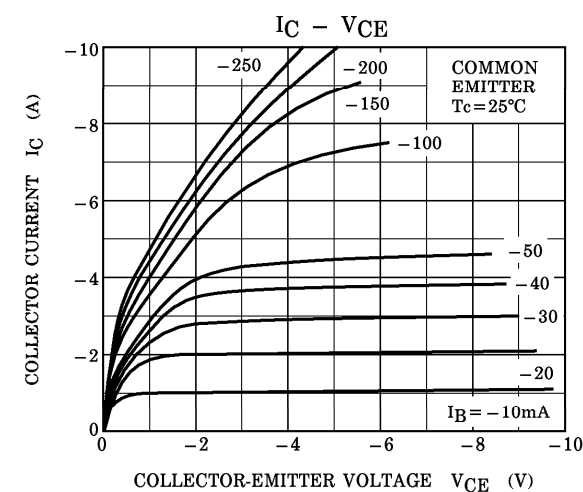


Weight : 4.7g (Typ.)

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

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I_{CBO}	$V_{CB} = -140\text{V}, I_E = 0$	—	—	-5.0	μA
Emitter Cut-off Current	I_{EBO}	$V_{EB} = -5\text{V}, I_C = 0$	—	—	-5.0	μA
Collector-Emitter Breakdown Voltage	$V_{(BR)CE0}$	$I_C = -50\text{mA}, I_B = 0$	-140	—	—	V
DC Current Gain	$h_{FE(1)}$ (Note)	$V_{CE} = -5\text{V}, I_C = -1\text{A}$	55	—	160	
	$h_{FE(2)}$	$V_{CE} = -5\text{V}, I_C = -5\text{A}$	35	83	—	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C = -7\text{A}, I_B = -0.7\text{A}$	—	-0.8	-2.0	V
Base-Emitter Voltage	V_{BE}	$V_{CE} = -5\text{V}, I_C = -5\text{A}$	—	-1.0	-1.5	V
Transition Frequency	f_T	$V_{CE} = -5\text{V}, I_C = -1\text{A}$	—	30	—	MHz
Collector Output Capacitance	C_{ob}	$V_{CB} = -10\text{V}, I_E = 0, f = 1\text{MHz}$	—	320	—	pF

(Note) : $h_{FE(1)}$ Classification R : 55~110, O : 80~160



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