

TOSHIBA TRANSISTOR SILICON PNP TRIPLE DIFFUSED TYPE

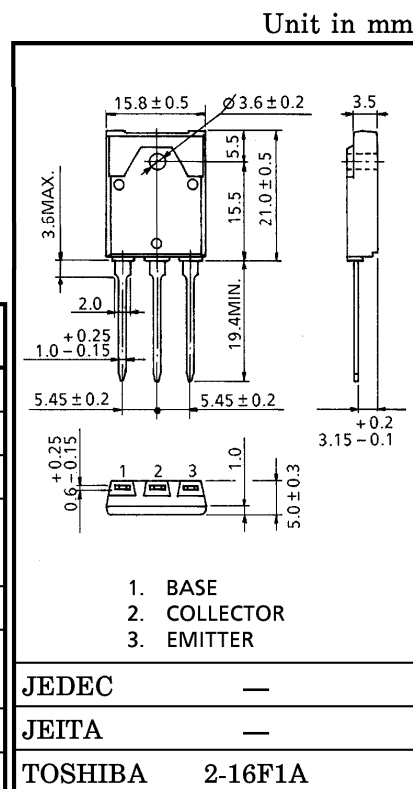
2SA1804

POWER AMPLIFIER APPLICATIONS

- Complementary to 2SC4689
- Recommend for 55W High Fidelity Audio Frequency Amplifier output Stage.

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

CHARACTERISTIC		SYMBOL	RATING	UNIT
Collector-Base Voltage		V_{CBO}	-120	V
Collector-Emitter Voltage		V_{CEO}	-120	V
Emitter-Base Voltage		V_{EBO}	-5	V
Collector Current	DC	I_C	-8	A
	Pulse	I_{CP}	-16	
Base Current		I_B	-0.8	A
Collector Power Dissipation ($T_c = 25^\circ\text{C}$)		P_C	70	W
Junction Temperature		T_j	150	$^\circ\text{C}$
Storage Temperature Range		T_{stg}	-55~150	$^\circ\text{C}$

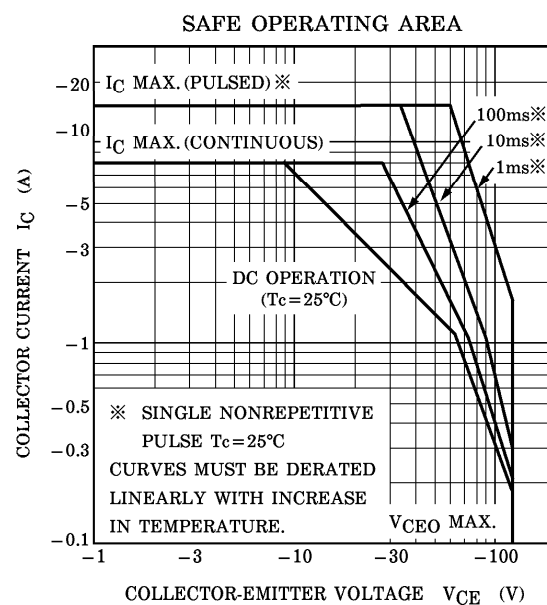
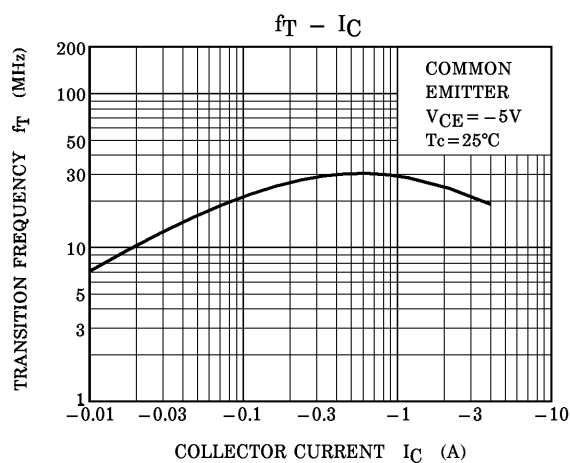
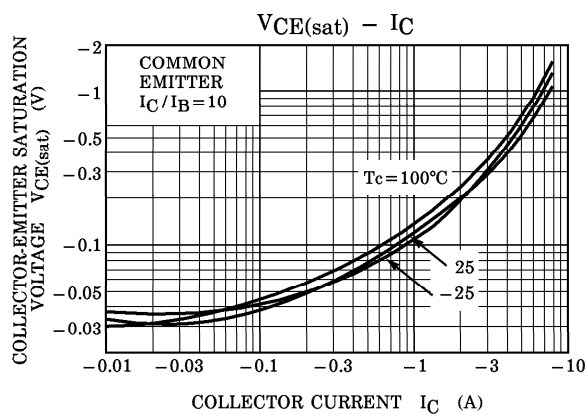
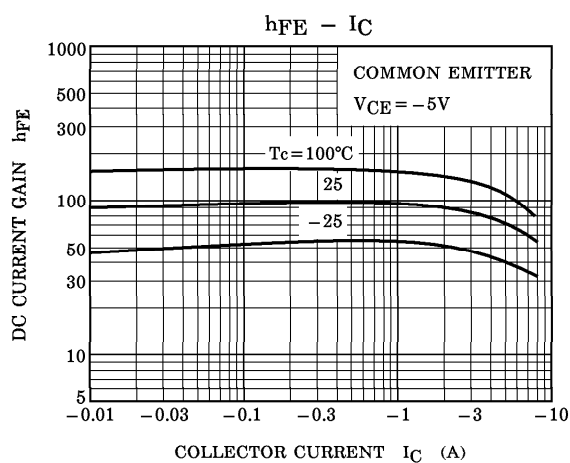
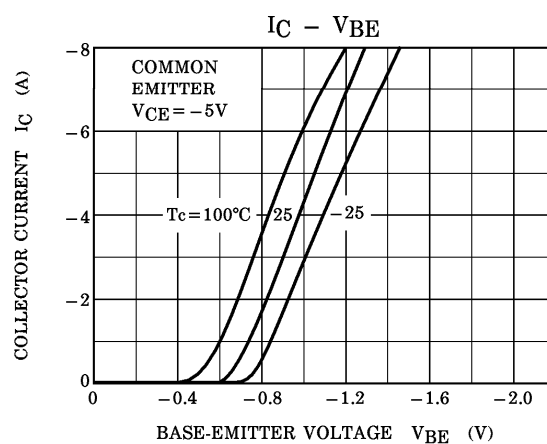
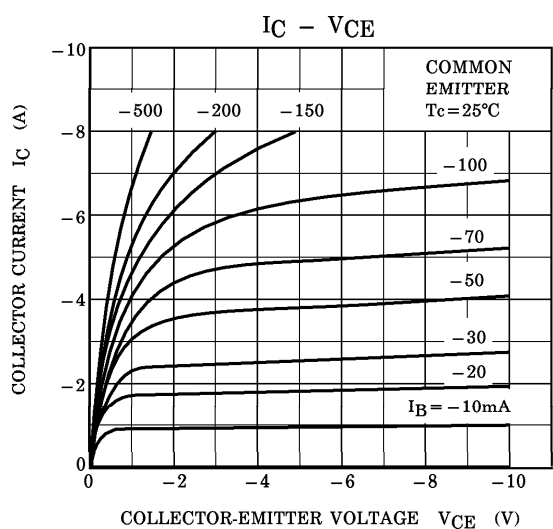


Weight : 5.8g (Typ.)

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

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I_{CBO}	$V_{CB} = -120\text{V}, I_E = 0$	—	—	-5.0	μA
Emitter Cut-off Current	I_{EBO}	$V_{EB} = -5\text{V}, I_C = 0$	—	—	-5.0	μA
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C = -50\text{mA}, I_B = 0$	-120	—	—	V
DC Current Gain	$h_{FE(1)}$ (Note)	$V_{CE} = -5\text{V}, I_C = -1\text{A}$	55	—	160	
	$h_{FE(2)}$	$V_{CE} = -5\text{V}, I_C = -4\text{A}$	35	75	—	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C = -6\text{A}, I_B = -0.6\text{A}$	—	-0.80	-2.0	V
Base-Emitter Voltage	V_{BE}	$V_{CE} = -5\text{V}, I_C = -4\text{A}$	—	-0.97	-1.5	V
Transition Frequency	f_T	$V_{CE} = -5\text{V}, I_C = -1\text{A}$	—	30	—	MHz
Collector Output Capacitance	C_{ob}	$V_{CB} = -10\text{V}, I_E = 0, f = 1\text{MHz}$	—	420	—	pF

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



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