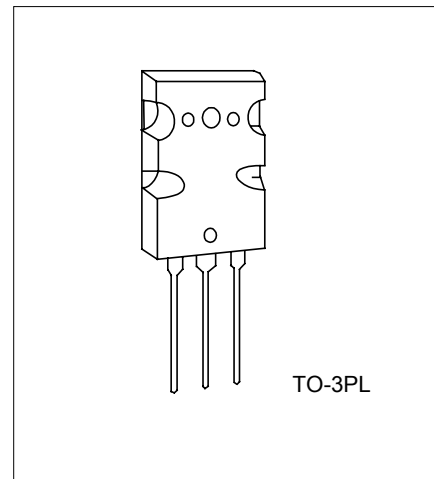


POWER AMPLIFIER APPLICATIONS

FEATURES

- * Complementary to UTC 2SC5200
- * Recommended for 100W High Fidelity Audio Frequency Amplifier Output Stage.



1:BASE 2:COLLECTOR 3:EMITTER
*Pb-free plating product number:2SA1943L

ABSOLUTE MAXIMUM RATINGS

($T_C = 25^\circ\text{C}$)

PARAMETER	SYMBOL	RATINGS	UNIT
Collector-Base Voltage	V_{CBO}	-230	V
Collector-Emitter Voltage	V_{CEO}	-230	V
Emitter-Base Voltage	V_{EBO}	-5	V
Collector Current	I_C	-15	A
Base Current	I_B	-1.5	A
Collector Power Dissipation ($T_C=25^\circ\text{C}$)	P_C	150	W
Junction Temperature	T_J	0 ~ +125	$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-65 ~ +125	$^\circ\text{C}$

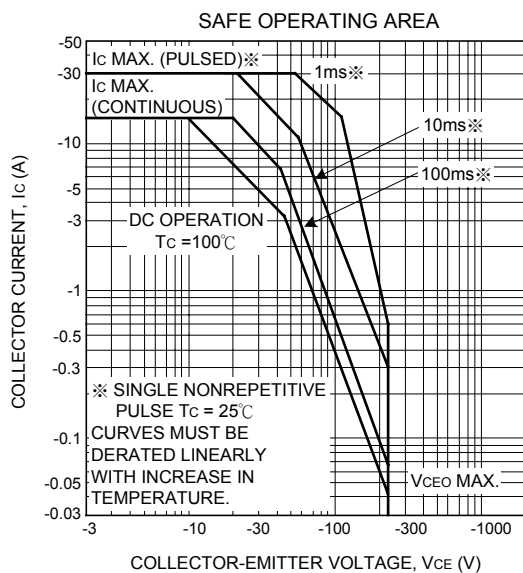
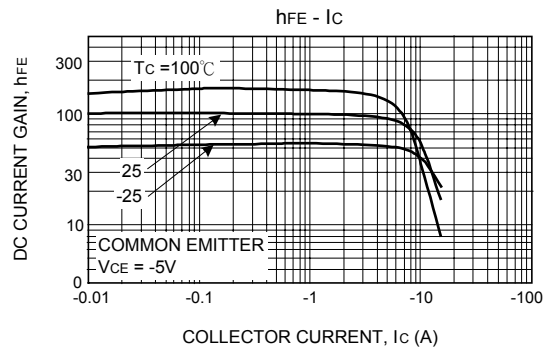
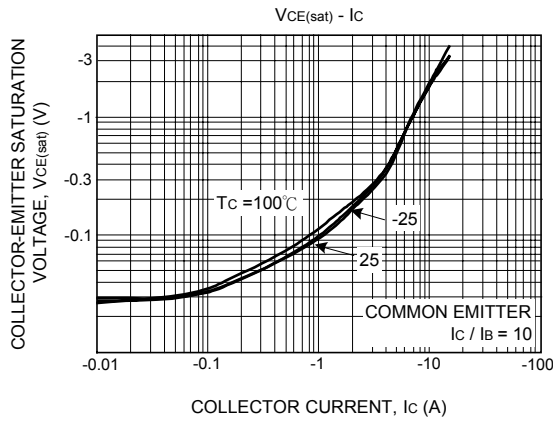
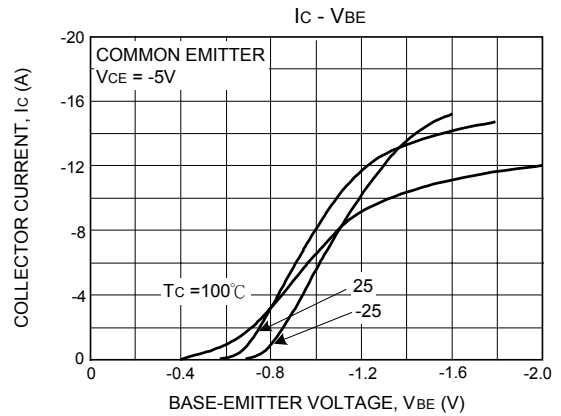
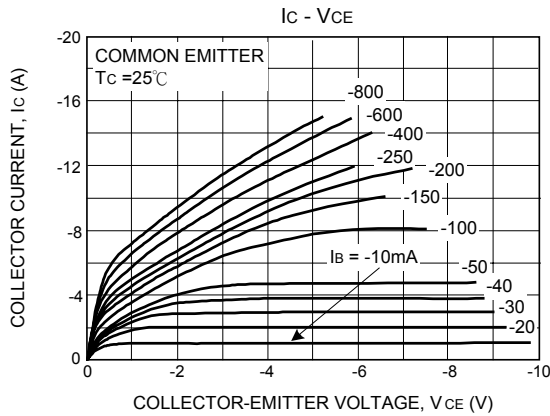
ELECTRICAL CHARACTERISTICS

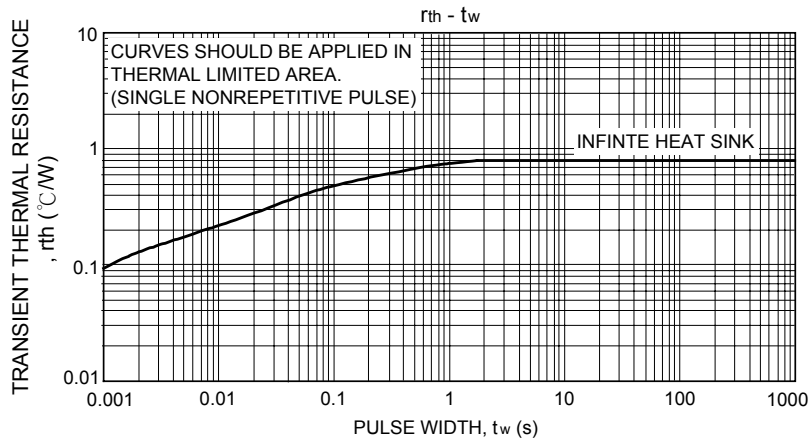
($T_a=25^\circ\text{C}$)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Collector Cut-off Current	I_{CBO}	$V_{CB} = -230\text{V}, I_E=0$			-5.0	μA
Emitter Cut-off Current	I_{EBO}	$V_{EB} = -5\text{V}, I_C=0$			-5.0	μA
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C = -50\text{mA}, I_B=0$	-230			V
DC Current Gain	$h_{FE(1)}$ (Note)	$V_{CE} = -5\text{V}, I_C = -1\text{A}$	55		160	
	$h_{FE(2)}$	$V_{CE} = -5\text{V}, I_C = -7\text{A}$	35	60		
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C = -8\text{A}, I_B = -0.8\text{A}$		-1.5	-3.0	V
Base -Emitter Voltage	V_{BE}	$V_{CE} = -5\text{V}, I_C = -7\text{A}$		-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}	$V_{CB} = -10\text{V}, I_E=0, f=1\text{MHz}$		360		pF

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

TYPICAL CHARACTERISTICS





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